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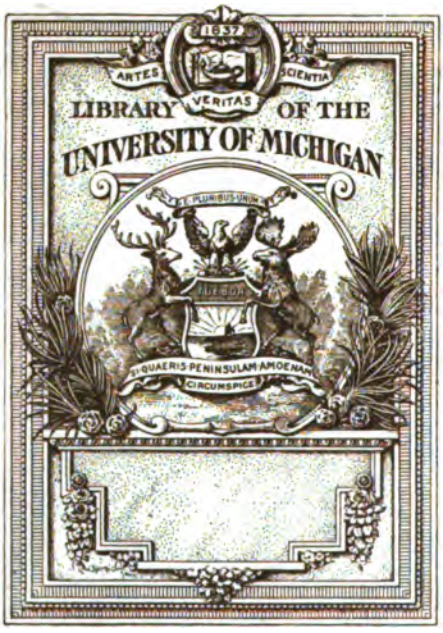

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Franklin and Marshall College

Lancaster, Pennsylvania

The Catalogue
1909-1910

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CATALOGUE

OF

Franklin and Marshall College

LANCASTER, PENNSYLVANIA

1909-1910

PRESS OF
THE NEW ERA PRINTING COMPANY
LANCASTER, PA.
1910

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1909

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COLLEGE CALENDAR

1909

Examinations for entrance ..... September 6–8
First semester begins at 10 a.m..... September 9
Thanksgiving Day recess..... November 25–26
Christmas vacation begins at 12:20 p.m.. December 17

1910

College exercises begin at 9 a.m..... January 4
Inauguration of President..... January 7
Semester examinations..... January 24–29
Second semester begins..... January 31
Washington's Birthday—Holiday..... February 22
Easter recess..... March 24–28
Anniversary of Goethean Literary Society... April 29
Senior examinations..... May 2–6
Ascension Day—Holiday..... May 5
Anniversary of Diagnothian Literary Society... May 6
Inter-scholastic Track Meet at 1:30 p.m..... May 7
Senior vacation begins..... May 9
Senior prize debate..... June 4
Baccalaureate Sunday..... June 5
Junior Oratorical Contest at 7:30 p.m. ..... June 6
Advisory Council of Alumni at 10 a.m. ..... June 7
Meeting of the Board of Trustees at 2 p.m..... June 7
Class Day exercises at 3 p.m..... June 7
Seventy-fifth Anniversary of the Literary Societies at 8 p.m..... June 7

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COLLEGE CALENDAR

1910

Literary Society reunions at 10 a.m..... June 8
Meeting of the Alumni Association at 11:30 a.m.. June 8
Alumni Luncheon, Campus, at 12:30 p.m..... June 8
Annual base-ball game, Athletic Field at 3 p.m.. June 8
Meeting of Phi Beta Kappa Fraternity at 6:45 p.m..... June 8
Phi Beta Kappa Oration at 7:30 p.m..... June 8
Alumni Banquet in Academy Building at 9 p.m.. June 8
Seventy-fourth Annual Commencement at 9 a.m. June 9
Examinations for entrance..... September 5–7
Registration..... September 7
First semester begins at 10 a.m..... September 8
Thanksgiving Day recess..... November 24–25
Christmas vacation begins at 12:20 p.m... December 16

1911

College exercises begin at 9 a.m..... January 3
Semester examinations..... January 23–28
Second semester begins..... January 30
Washington's Birthday—Holiday..... February 22
Easter recess ..... April 13–17
Seventy-fifth Annual Commencement ..... June 8

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* Deceased, Dec. 18, 1909.
† Deceased, Feb. 13, 1910.

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J. B. KERSCHNER

Wilhelm Estate

PAUL C. WOLFF — C. C. LEADER
H. L. RAUB — JOHN M. JAMISON
JARED HARPER

Observatory

E. R. ESCHBACH — B. F. FACKENTHAL, JR.
A. S. WEBER — H. L. RAUB
PROF. A. T. G. APPLE

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JAMES SHAND — W. H. HAGER
H. S. WILLIAMSON — W. M. FRANKLIN
W. U. HENSEL

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H. MOSSER — J. H. SHOOK
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E. R. ESCHBACH — JAMES SHAND
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Gymnasium and Athletics

H. S. WILLIAMSON — JAMES SHAND
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REV. C. J. MUSSER, D.D., '78,
T. M. BALLIET, PH.D., '76,
S. H. GUILFORD, D.D.S., '61,
REV. L. KRYDER EVANS, D.D., '64.

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437 West James Street

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Audenried Professor of History and Archæology

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818 West Lemon Street

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D. C. MCLAUGHLIN,

Physical Instructor and Director of the Gymnasium

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M. W. RAUB, M.D.,

Curator of the Museum

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Secretary

GEORGE FULMER MULL, A.M., LITT.D.

Treasurer

CLARENCE NEVIN HELLER, A.M.

Registrar

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PROFESSORS MULL, HIESTER, BECK

On Registration and Electives

PROFESSORS HIESTER, SCHIEDT AND MULL

On Athletics

PROFESSORS BECK, MULL AND HELLER

On Non-Athletic Organizations

PROFESSORS SCHIEDT, CHAMBERS AND FARNSWORTH

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FRANKLIN AND MARSHALL COLLEGE

History and Description

Franklin and Marshall College was formed by the union of two older educational institutions, which in their independent existence labored for common ideals and aims and ministered to a common constituency. Franklin College had been maintained in Lancaster, Pa., for fifty-five years and Marshall College had thrived for seventeen years in Mercersburg, Pa., when by an act of the Legislature of Pennsylvania they were merged and consolidated under the name of Franklin and Marshall College to be located in the city of Lancaster, or its immediate vicinity. The effort to enlarge their sphere of usefulness, by joining their means and labors under one organization, enabled them to confer a more extensive benefit upon the citizens of this state, in the promotion of liberal and scientific learning. The wisdom of that act is justified in the rich fruitfulness and illustrious history of Franklin and Marshall College as an aggressive and vigorous institution for the promotion of higher education.

Franklin College

The educational history of this institution runs back to the trying times of the latter part of the eighteenth century. The charter was granted March 10, 1787. When the infant republic was being tested in its right to live and its ability to grow, Franklin College was founded in the historic borough of Lancaster. Those

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who conceived the purpose of this third oldest college in Pennsylvania, and brought her into being were men prominent in the establishment of the nation and concerned with the development of her people. In the necessity of improving the younger generation, that there might be assured a strong American nation, it was especially needful to minister to the educational needs of the large and thrifty but greatly neglected German population of the state. To this end a petition was made to the Legislature of Pennsylvania to establish a German College and Charity School in Lancaster. "From a conviction of the necessity of diffusing knowledge through every part of the state, in order to preserve our present republican system of government, as well as to promote those improvements in the arts and sciences which alone render nations respectable, great and happy" it was asked, that an institution should be established, "to promote an accurate knowledge of the German and English languages, also of the learned languages, of mathematics, morals, and natural philosophy, divinity, and all such other branches of literature as will tend to make good men and useful citizens." Out of "profound respect for the character of his Excellency, the President of the State, her most distinguished citizen" and one of its projectors and liberal patrons, the school was called Franklin College. Among the first trustees were four signers of the Declaration of Independence, seven officers of the War of the Revolution, three who became governors of Pennsylvania, two distinguished jurists, and two who became senators of the United States. Of the ministers, seven were Reformed, seven Lutheran, one Moravian and one Roman Catholic. The specific aim of the

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college was further emphasized in the preamble of the act of incorporation. The grant was made because "The citizens of this state, of German birth or extraction, have eminently contributed by their industry, economy and public virtues to raise the state to its present happiness and prosperity" — and because of "a desire to increase and perpetuate the blessings derived to them from the possession of property and a free government" — "to train up a succession of youth to fully understand, zealously practice and strenuously defend the republican form of government." The scope of her sphere was thus national in its conception.

Founded in the interest of Germans, it was never intended to be, as it never became, exclusively a German institution, but it served to foster an appreciation of German life and literature and formed an environment in which the sons of Germans might be educated without being alienated from the faith of their fathers. In emphasizing the English course and teaching "all those branches of literature which are usually taught in the colleges of Europe and America" it was a valuable agency to mediate German thought and mould German life into American manhood. Its purpose to give higher learning and liberal culture to the people of the interior of the state was always held firmly in view and in the face of many difficulties in its environment and the lack of adequate financial support it continued a blessed service during the time of its independent existence. Among the first trustees were the Hons. Thomas Mifflin, Thomas McKean, Robert Morris, George Clymer, Benjamin Rush and the Rev. Drs. J. H. C. Helmuth, Casper Weiberg, Henry E. Muhlenberg and William Hendel. Its

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effective worth may be estimated from the statement of Benjamin Rush who said of its faculty, "A cluster of more learned or better qualified masters, I believe, I have never met in any university." It included Dr. F. A. Muhlenberg, the botanist, Dr. Frederick Valentine Melsheimer, "the father of American entomology," and James Ross, author of a Latin and a Greek grammar, and "one of the foremost classical scholars of America."

MARSHALL COLLEGE

A classical institution aiming to give an adequate training to those preparing for the ministry of the German Reformed Church was proposed prior to the year 1829 and in 1831 such a school was started at York, Pa. It was firmly established in 1833 when Dr. F. A. Rauch was placed in charge. In 1835 the name was changed to the "High School of the Reformed Church" and in the fall of the same year was removed to Mercersburg, the little village in the mountains, destined to become famous as the seat of "Mercersburg Theology." On the thirty-first day of March, 1836, the Legislature of Pennsylvania enacted "that the high school of the German Reformed Church, located at Mercersburg, in the county of Franklin, be and hereby is erected into a college, for the education of youth in the learned languages, the arts, sciences and useful literature." It was named after the eminent Chief Justice of the United States, "in testimony of respect for the exalted character, great worth, and high mental attainments of the late John Marshall." While owing its origin to a zeal on the part of a religious denomination it soon broadened its sphere and enlarged

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its course to meet the needs and serve the wants of those seeking a liberal education to prepare for the professions of law and medicine or enter a business career. It had a choice coterie of professors, men of large vision and distinguished scholarship. Here it was that Dr. Frederick Augustus Rauch, fresh from the German University and in the full vigor of young manhood, produced his pioneer work on psychology and blended German philosophy with American thought. Here the giant theologian, Dr. John Williamson Nevin, taught and wrote, and by the vigor and richness of his works claimed attention from scholars of Europe as well as America. Associated with them were Dr. Philip Schaff, one of the foremost church historians of this country; Dr. Henry Harbaugh, the versatile poet preacher; the brilliant Dr. E. E. Higbee, who later filled a most successful administration as Superintendent of Public Schools of Pennsylvania; and the distinguished botanist and voluminous writer, Dr. Thomas C. Porter, the learned scientist Dr. Traill Green, with Dr. William Marvel Nevin in the chair of English Literature. This faculty, worthy of any university, laid broad and deep the foundation of a true college. Their liberal educational views, profound Christian scholarship and high culture not only moulded students in personal contact but gave inspiration and enthusiasm to education generally. Marshall College is the main source of the present institution, and its history presents ideals which in their simple dignity are worthy of our constant imitation.

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FRANKLIN AND MARSHALL COLLEGE

Neither Franklin College nor Marshall College was able to accomplish in full measure the purpose for which it had been established, and both were looking for means to enlarge the scope of their work. As the result of mutual overtures they were united under a new charter, and Marshall College was removed to Lancaster in the spring of 1853 to carry the union into effect. The formal opening took place on June 7, 1853. The charter, granted on April 19, 1850, empowers the College to grant "such degrees in the arts and sciences or other useful learning as have been usually granted in other colleges or universities in America or Europe."

Under the successful guidance of efficient presidents the College grew and prospered and furnished a remarkable history which bestows upon this age a rich and glorious heritage. In successive years her faculty and students increased, her campus was enlarged and her course strengthened and enriched. The proper course of historical development and the solidarity of her educational system has been preserved. The broad, liberal spirit which characterized Franklin College and the profound philosophy and Christian culture peculiar to Marshall College are united in the facilities and purposes of her thorough educational system in preparation for professional and technical training, as for all the duties of life.

The College bases its claim for patronage and support on the advantages which it offers for obtaining a thorough liberal education. The curriculum is adapted to afford training for culture and discipline and aims at thorough instruction, harmonious development and the formation

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of sound character. The studies are so arranged that the students, in their entire course, come in contact with the regular professors—men of ability, experience and enthusiasm in their respective departments—and receive in this way not only the highest measure of personal attention, but also the inspiration which the genuine scholar and teacher, by personal influence, always communicates.

The College is under the ownership and general control of a board of trustees, thirty in number, to be held in trust for the Eastern Synod, the Pittsburgh Synod, and the Synod of the Potomac of the Reformed Church in the United States. The Eastern Synod elects twelve, the Pittsburgh Synod three and the Synod of the Potomac six members of the board for a period of ten years. The other nine are elected by the board which also has power to fill all vacancies. While the College is under the general care of the Reformed Church in the United States, it imposes no sectarian requirement or restraint upon professors or students. The instruction and government of the students are committed to the faculty, whose members are elected by the board of trustees. Matters relating to athletic games and intercollegiate contests are determined by the joint action of a committee of the faculty and representatives of the faculty, alumni and student body, constituting the Athletic Association.

LOCATION

The College is located on elevated ground on the northwest side of Lancaster, a city of about 60,000 inhabitants, on the main line of the Pennsylvania railroad, between

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Philadelphia and Harrisburg. Lancaster is the county seat of "the garden spot of the United States" and the center of a network of electric railways. It has been a college town for nearly a hundred and twenty-five years and has an atmosphere of culture and scholarship and a spirit of friendship and sympathy which is valuable to students of an institution of learning, and favorable to the development of strong, manly character.

CAMPUS

The area of college grounds is fifty-four acres, on which are conveniently grouped ten buildings. The older and original campus possesses large shade trees, with walks and driveways. At the northern end is an enclosed Athletic Field properly arranged for foot-ball, base-ball and track events. The tennis courts are outside of this enclosure. West of the College grounds is the New Buchanan Park of Lancaster City, and on the east, separated by College Avenue, are the buildings of the Theological Seminary of the Reformed Church in the United States.

PRESIDENTS

The following have served as presidents of Franklin and Marshall College:

Emanuel Vogel Gerhart, D.D., 1855–66
John Williamson Nevin, D.D., LL.D., 1866–76
William Marvel Nevin, A.M., Pro. Tem. 1876–77
Thomas Gilmore Apple, D.D., LL.D., 1877–90
John Summers Stahr, D.D., LL.D., 1890–1909
Henry Harbaugh Apple, D.D., 1909–

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BUILDINGS AND EQUIPMENT

All the buildings are in first class condition and adapted for their particular uses. They are heated with steam and lighted by electricity, except the Library where gas furnishes a softer light for reading.

Recitation Hall.—This main building was erected on the campus in 1855. It is substantially built, three stories in height, with a graceful and conspicuous tower, surmounted by four small steeples. This is the center of college sentiment and tradition. It contains seven recitation rooms, the room of the Young Men's Christian Association, the offices of the secretary and treasurer and in the rear the large college chapel.

Society Halls.—On either side of the recitation hall are two halls owned and used by the Diagnothian and Goethean literary societies. They were erected in 1856–7 and are both alike in arrangement. On the first floor each contains a library and social room, on the second floor a large and beautiful assembly room where the weekly meetings are held. For a short time during the Civil War they were used as hospitals. The two libraries contain over 18,000 well selected books. With one exception these are conceded to be the most valuable college literary society property in the world.

Gymnasium.—The Gymnasium was built in 1891 through the generosity of Mr. H. S. Williamson and furnished by the efforts of the undergraduates of the College. It has an ample exercise hall, supplied with apparatus suited to the systematic drill in gymnastics for which it was designed. It is equipped with the appliances for heavy work, such as horizontal and parallel bars, traveling rings, ladders, horse and striking bag. In

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the basement is the dressing room, supplied with lockers, and provided with facilities for shower baths. It is additionally used for evening social functions in which the students are interested.

Library.—The Watts de Peyster Library was erected in 1897–98 at a cost of about $36,000, the gift of John Watts de Peyster, LL.D., of Tivoli, New York. It contains about 30,000 volumes, which together with the libraries of the literary societies, make about 48,000 volumes accessible for the use of the students. It is the most beautiful building on the campus, a brick structure with stone trimmings, and can accommodate 75,000 volumes. The stack room is provided with metallic shelving and all the conveniences usual in modern libraries. On the second floor is a reading room where are kept on file all the best secular and religious papers and magazines of this country, as well as the leading English monthly and quarterly reviews. The following alcoves are endowed: American Literature, German Language and Literature, Fine Arts, Mental Science, Political Economy, Miscellaneous Books. The Library is a depository for government publications.

The Library and Reading Room are open every day in the week, except Sunday, from 2 to 5 P. M., and from 7 to 10 P. M. All persons are free to consult the books and periodicals on the shelves and tables during these hours: but books, or periodicals, can be taken out for use in private only during afternoon hours, when the Librarian, or his assistant, is in the library, and when so taken, they may be kept for ten days, with the privilege of renewing them at the end of that period for another ten days.

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Set into the wall, at the entrance, is a tablet of conglomerate marble from General de Peyster's home on the Hudson, bearing the following description: "This library is erected as a memorial of John Watts, *vir æquanimitatis*, and of Frederick de Peyster, *vir auctoritatis*, by a grandson and son, who, bearing both names, seeks to continue in their honor the good they did and taught him." In the waiting room are oil paintings of the former presidents of the College.

In front of the building is a statue of Abraham de Peyster, of heroic size, first erected in 1895, in Bowling Green, New York, opposite General de Peyster's ancestral home. It was presented to the College and placed on the campus when the library building was erected. Abraham de Peyster (1651–1728) was prominent in our colonial history and was the great-great-great-grandfather of General de Peyster, who erected the statue and the library building.

Observatory.—Mrs. James M. Hood, of Frederick, Md., presented the College with the Daniel Scholl Observatory in 1884 as a memorial to her father, Daniel Scholl. She also provided the equipment and gave an endowment of $10,000 for its maintenance. It contains an 11-inch Clark-Repsold equatorial with micrometer, a 3-inch transit instrument by Ertel and Son, a Fauth chronograph, a Seth Thomas precision clock and a chronometer, together with a set of meteorological instruments, a universal instrument, with 10-inch circles, reading to single seconds, a students' telescope with 4-inch objective by Clark, equatorially mounted, with finding circles and driving clock; a sextant and other instruments available for studying problems of time, longitude, latitude and azimuth.

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It is thus well equipped with all instruments necessary to gain a practical knowledge of astronomy, whether as an independent science, or in its bearings upon geodesy, navigation and surveying.

Through the generosity of Mr. M. T. Garvin, of Lancaster, Pa., the Observatory is also equipped with instruments by which the students are afforded opportunities for field work in engineering and surveying.

Science Building.—The Science Building is one of the finest of its kind in any college or university. It was built and equipped in 1900–01, at a total cost of $75,000. It is a three-story structure, of light colored brick; the laboratories are separated by fire-proof doors. It contains the Milton S. Hershey Chemical Laboratories, the B. Wolff, Jr., Biological Laboratories, the Physical Laboratories, the Charles F. Rengier Geological Equipment, the George F. Baer Laboratory of Applied Electricity, a large museum, lecture rooms for the various departments, professors' studies, a reception room and the President's Offices.

The apparatus in the Physical Laboratory is used to make demonstrations in the general course of physics. The students make measurements upon physical quantities so that the hand and eye are trained and the mind accustomed to habits of accuracy in carefully conducted investigations of the laws of physics.

Among the instruments in the Laboratory of Applied Electricity are two 5-K.W. rotary converters, one variable speed alternator, a Prony break, a magnetic tester, a modified Fessenden contact maker, and voltmeters, wattmeters and ammeters, for direct and alternating currents.

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The complete outfit of the thoroughly-equipped chemical department is the gift of Mr. Milton S. Hershey, of Hershey, Pa. It includes the General Analytical and Private Laboratories with Assay and Balance Rooms.

The family of the late B. Wolff, Jr., of Pittsburg, Pa., provided the Department of Biology in memory of Mr. Wolff. It includes the full equipment of the General Biological Laboratory with all the necessary microscopes and other instruments for each student as well as special laboratories for physiology, histology and embryology. These laboratories, together with the anatomical room, furnish unusual facilities for students who are preparing for the study of medicine.

The geological equipment consists of a complete set of Sholer-Davis models and photographs illustrating structural and dynamical geology, relief maps representing in plaster of paris the physiographical and geological formation of the United States, a well selected collection of fossils for the thorough study of historical geology and of microscopic appliances. With the *Fahnestock* and *Heisler* collections of minerals, these will afford exceptional opportunity for the study of geology.

The herbarium recently rearranged and placed in new cases includes the valuable collection of plants by the late A. P. Garber, M.D. This collection of phænogams and vascular cryptogams is accessible for reference and botanical work.

By an arrangement effected between the Linnæan Scientific and Historical Society of Lancaster, and the Trustees of Franklin and Marshall College, the Linnæan Society has removed its Museum and Cabinet to the College Building. In consequence of this removal, the Col-

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lege has the benefit and use of a very valuable collection of specimens in the different departments of Natural Science. It includes:

1. A complete skeleton of the *Dionoris giganteus*, of New Zealand, presented by Mr. J. M. Mays, of Philadelphia.

2. The collection of Coleoptera, made by the late Professor S. S. Rathvon, of Lancaster, presented to the College by Dr. Henry Bobb, in memory of his son, Eugene H. Bobb, A.M.

3. The extensive collection of terrestrial shells made by Rev. Dr. A. B. Kendig, of Brookline, Mass., purchased and presented to the College by Miss E. E. Smith, of Lancaster, Pa., to be called the A. B. Kendig collection.

4. The valuable ornithological collection of Dr. M. W. Raub, consisting of excellent mounted specimens of birds including nearly all the birds of Pennsylvania.

5. Fine mounted specimens of the moose, deer heads, etc., by Mr. A. C. Kepler and Dr. S. T. Davis.

6. A valuable collection of Indian implements and relics, presented by the Rev. Ellis N. Kremer, D.D.

7. A large number of Lepidoptera and Coleoptera, presented by Dr. M. W. Raub.

8. The Fahnestock and Heisler collections of minerals have been carefully classified and arranged by Prof. Beck, and a large number of new cases for the different sections of the museum have been put in place so as to make this department of great value in the service of scientific study.

Academy Buildings.—The old Academy building, erected in 1872–73, has been lately remodeled and is used as an Annex for the Preparatory School. The New

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Academy Building was completed in 1908 at a cost of nearly $115,000. It is 215 feet long, has two wings, 40 x 75 feet and a chapel seating 350 boys. It is modern in every detail and finished in hard wood with ample bath accommodations. In the basement is a gymnasium with lockers. The Academy students are required to board and room in these two buildings where the two principals live respectively and have general oversight of the students.

A janitor's house is on the rear of the campus, adjoining which, at the south end, is a part of campus with two professors' houses belonging to the Theological Seminary.

GENERAL INFORMATION

RELIGIOUS OBSERVANCES

The students are confronted with the claims of Christianity in its most concrete and living form. A large proportion of the students are communicant members of the Church, and a Christian spirit underlies and animates the instruction in the different departments.

Church Services.—There is a regularly organized Christian congregation in the institution (St. Stephen's Reformed Church), the members of which are the students, the professors and their families, together with some families in the vicinity not directly connected with the College. The clerical members of the faculties serve as pastors, while the other officers are selected from the members of the congregation. A regular service is held in the College Chapel Sunday morning at 10:30 o'clock during the college year and every Wednesday afternoon in Lent, and the Sacrament of the Lord's Supper is observed four times a year.

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All students are required to attend the Sunday service except the sons of parents who reside in Lancaster, or who belong to denominations other than that of the Reformed Church in the United States. To such person spermission is given to attend churches of their choice at the *special or written request of their parents or guardians, renewed each year.*

Morning Prayers.—All students are required to attend a service each morning of the week, except Saturday, in the College Chapel at nine o'clock, conducted by the President.

A prayer service is held under the auspices of hte Young Men's Christian Association each Sunday morning before the church service.

COLLEGE ORGANIZATIONS

Young Men's Christian Association.—The College has a flourishing Young Men's Christian Association which is devoted to the sustaining and extension of religious life among the students. Meetings are held each Sunday morning before the church services when an appropriate address is delivered by a minister or Christian layman of the College or city, and classes are formed for the study of missions. The association seeks to be of practical benefit to the development of Christian character and to render service to the students. It publishes at the beginning of each college year a Students' Hand Book, containing a map of Lancaster and useful information concerning the work and activities of the College.

Literary Societies.—Two literary societies, Diagnothian and Goethean, are maintained by the students, who own

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their society halls, which are beautifully furnished. Each society meets every Friday evening of the collegiate year. Membership is not compulsory but is desired and encouraged by the faculty. These societies have had a flourishing existence for seventy-five years and are of great value for the intellectual development of the student. They maintain and publish the *College Student* as their literary organ.

Society membership is one of the qualifications for those who compete for various prizes offered by the College, as well as for admission to the Phi Beta Kappa graduate fraternity.

Nevin Club.—This organization is named after the great theologian, Dr. John Williamson Nevin, a former president of Franklin and Marshall College, and is composed of students who intend to study for the ministry. It affords opportunity for association of those having a common aim in college work and is a constant appeal to all students for recognition of the claims of the service of the Christian ministry.

Fraternities.—Four national Greek Letter Fraternities have chapters and live in their own houses. These organizations work for the best interests of the College and take a prominent part in all its activities.

Phi Beta Kappa.—The College has recently been granted a chapter in the Phi Beta Kappa fraternity, to whose membership the honor men of each graduating class are elected. Under its auspices each commencement week an address is delivered by some distinguished scholar.

Social Clubs.—There are a number of local boarding clubs of a social and fraternal nature.

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Musical Clubs.—The Glee and Mandolin Clubs are at present under the direction of Dr. Henry Gordon Thunder, of Philadelphia. Concerts are rendered at various places during the winter and spring months.

Dramatic Club.—The Green Room Club presents a play each year in Fulton Opera House in Lancaster. All students are eligible to membership. Selection is made by trial.

Chess Club.—This club has recently been organized and as yet has confined its work to contests among its own members.

Press Club.—The object of this club is to afford actual work in correspondence with daily papers in the state.

ATHLETICS

Ample facilities are afforded for athletic purposes, and all proper encouragement is given for the maintenance of athletic sports. Athletic matters are in the hands of the Athletic Association to which all students belong. The executive committee, called the Athletic Advisory Board, consists of members of the faculty, alumni and undergraduate body. The college is a member of "The Inter-Collegiate Athletic Association of the United States." A graded course of physical training under a competent instructor is required of all students. A thorough physical examination is given to all students and care is given to those who participate in athletic contests. An Inter-Scholastic Track Meet is held annually on Williamson Field.

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PUBLICATIONS

The College Student, founded in 1879, is published monthly during the college year under the auspices of the Diagnothian and Goethean Literary Societies. It is devoted to the development of literary activity among the students. A prize is offered each year to the student who contributes the best original piece of fiction.

The F. & M. Weekly reports the news of college work and life and aims to mould proper college spirit.

The Oriflamme is the college annual published by the Junior Class. It is illustrated and intended to present a summary of student life during the current scholastic year.

The College Calendar is issued by the Sophomore Class.

The Nevonian is an annual published by the Senior Class containing the program and addresses of Class-Day.

The *Obituary Record* contains sketches of all alumni who died during the year and is printed annually by the Alumni Association.

The *Students' Hand Book* contains information especially valuable to new students. It is compiled by the Young Men's Christian Association.

The *Catalogue* is issued annually and gives information about the College as a whole and the register of students.

ALUMNI ASSOCIATIONS

The Alumni of the College have an association, the object of which is to keep alive the sentiment of affection for their Alma Mater, and to unite the graduates of successive years by a common tie of fellowship. Its meetings are held annually during commencement week.

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Various district alumni associations maintain organization by holding at least one meeting each year and tend to keep up and give practical shape to the interest felt by the alumni in the well being of the College.

DEGREES

The College confers the degrees of Bachelor of Arts and Bachelor of Philosophy upon graduation on those who satisfactorily complete the full courses of study as outlined in the catalogue.

ADVANCED DEGREES

The degree of Master of Arts is conferred upon those who have received the degree of Bachelor of Arts from a reputable college and who have satisfactorily completed a prescribed course of study according to the general regulations governing graduate study. The degrees of Master of Philosophy and Master of Science are similarly conferred upon the holders of the corresponding bachelor's degrees. These graduate courses may be pursued either in residence or *in absentia* subject to the regulation that scientific courses can be pursued *in absentia* only where the student has access to laboratory or observatory.

Further particulars may be obtained by application to Prof. A. V. Hiester, Registrar of Graduate Courses.

COLLEGIATE YEAR

The collegiate year consists of two semesters. The first begins thirteen weeks after the Annual Commencement, and continues until the last week in January, including the Christmas recess of two weeks; the second

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begins immediately after the close of the first and continues until Commencement.

REPORTS

At the end of each semester the grade of each student in each course taken by him is recorded by the secretary. A report of his standing is then transmitted to his parent or guardian.

EXPENSES

Each student is charged a contingent fee of eighty dollars. This amount includes fees for Library and Reading Room, Laboratory, Gymnasium and Hospital. It is payable in instalments, as follows: five dollars on registration, forty dollars for the first semester and thirty-five for the second, within ten days from the beginning of each.

An additional fee of one dollar is charged to those who fail to register at the time specified in September.

Any student failing to make payment within the required time, unless specifically excused, will suffer the loss of college privileges, and notice of such delinquency will be sent to parents or guardians. A graduation fee of five dollars is charged all students taking the bachelor's degree.

At the beginning of the year students are required to deposit fifty cents for a locker key in the gymnasium, one dollar for a locker key in the laboratories, and sums varying from five to fifteen dollars to cover the expense of breakage in the laboratories or to pay for expensive material used in their work. These sums, or the unexpended balances, are returned at the end of the year.

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The student's personal expenses are determined largely by his habits and tastes, and are limited by his power of self control. Board and room are obtained in clubs at an average cost of $3.50 a week. In private families it varies from $4.00 to $5.00 a week.

HOSPITAL ACCOMMODATIONS

Arrangements have been made with the Lancaster General Hospital, whereby students from a distance receive free medical treatment by members of the Hospital Staff. In case of serious illness, the student is removed to the Hospital, where he receives the attention of a skilled physician and is cared for by a trained nurse, without charge.

ANNUAL PRIZES

A gold medal is awarded to the member of the Senior Class who passes the most satisfactory examination in the German language. This prize has been permanently endowed by R. K. Buehrle, Ph.D., Superintendent of Public Schools of Lancaster City.

A gold medal is given to the member of the Junior Class who is successful in competition at the Junior Oratorical Contest. This is called the Wetzel Oratorical Prize and has been endowed by J. W. Wetzel, Esq., Carlisle, Pa.

Two prizes are awarded to members of the Senior Class who shall be judged to hold first and second places in a Senior Prize Debate.

William H. Keller, Esq., of Lancaster City, has offered an annual prize of twenty-five dollars to be awarded at the end of the Sophomore year to the student who has made

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the best record in the study of Latin and Greek during the Freshman and Sophomore years.

There are two prizes offered by both the Diagnothian and Goethean societies in an oratorical contest for members of the Sophomore and Freshman classes.

REQUIREMENTS FOR ADMISSION

Students are admitted by certificate and on examination. In all cases they must present satisfactory testimonials of good moral character, and, if from other colleges, evidences of honorable dismissal.

Applications for admission to advanced standing in the college will not be received later than the opening of the Senior year.

CERTIFICATES

Students are received by certificate from approved schools and academies whose course of study fully covers the requirements for admission. The certificates must state the text-books used in preparation, and the exact amount of work done in each study, as specified in the blank forms furnished by the college and sent to the college direct from the principal of the preparatory school.

Certificates of the College Entrance Examination Board will be accepted.

EXAMINATIONS

Examinations for admission are held during commencement week and the week of the opening of the college year.

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Students applying for admission to advanced classes will be examined on both the preparatory work for entrance to college and on the studies previously pursued by the classes they propose to enter.

Local examinations will be held at such times and places as may be agreed upon, provided there be not less than three applicants to be examined at the same place.

The examinations at Lancaster will be held on June 6–10, and September 5–7, 1910.

Candidates for the Freshman class must be qualified in the following branches:

For the course leading to A.B.:

HISTORY: Outlines of Ancient History, Descriptive and Physical Geography, Mythology.

ENGLISH: The Entrance Examination in English is conducted on the lines laid down by the Association of Colleges and Preparatory Schools in the Middle States and Maryland.

For 1910 (June and September): Franklin's *Autobiography;* Pope's *Rape of the Lock;* Blackmore's *Lorna Doone;* Carlyle's *Heroes and Hero Worship;* Scott's *The Lady of the Lake;* Poe's *Poems;* Webster's *First Bunker Hill Oration.*

For 1911 (June and September): Washington's *Farewell Address;* Franklin's *Autobiography;* Goldsmith's *The Deserted Village;* Hawthorne's *The House of the Seven Gables;* Blackmore's *Lorna Doone;* De Quincey's *Joan of Arc* and *The English Mail Coach;* Carlyle's *Heroes and Hero Worship;* Scott's *The Lady of the Lake;* Lowell's *The Vision of Sir Launfal.*

The candidate will be required to present evidence of a general knowledge of the subject matter, and to answer

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simple questions on the lives of the authors. The form of examination will be the writing of a paragraph or two on each of several topics to be chosen by the candidate from a considerable number set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. The essentials of English Grammar are presupposed, and no candidate will be accepted whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN: *Cæsar*—four books; *Cicero*—four orations; *Virgil*—four books of the Æneid; simple exercises in Latin prose compositions. The chief aim of the examination will be to test the candidate's knowledge of grammatical forms and constructions; this will also be expected from the showing of the certificates of admission.

MATHEMATICS: Arithmetic, Algebra (through equations of the second degree, including involution, evolution, radical and imaginary quantities, as in Well's University Algebra to Section XXXI., or Robinson's University Algebra to Chapter VI.), Geometry (five books, Wentworth's), and the Mechanics of Solids, Liquids and Gases (137 pages of Gage's Physics).

GREEK: Jacob's Greek Reader and four books of the Anabasis, Collar and Daniell's Greek Composition (fifty exercises), *or other authors equivalent in quality*.

For the course leading to Ph.B.:

The same as above in History, English and Latin. Instead of Greek, the applicant may offer such knowledge of French or German as will indicate a thorough acquaintance with the Grammar and ability to read at sight easy

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German or French (modern), such as would be acquired by reading about two hundred pages.

MATHEMATICS: The same as for A.B., with the addition of Algebra to the "Theory of Equations." Elementary Physics complete.

SCIENCE: Elementary Botany.

On and after September, 1911, the requirements for admission, in addition to the above, will include Cicero, fifth and sixth orations; Virgil, fifth and sixth orations; Plane Geometry; and a choice of Mediæval, English, American History and Civil Government.

ADVANCED STANDING

No student will be admitted to advanced standing later than the beginning of the Senior year. Students who come from another college must present full credentials for both college and preparatory work and a letter of honorable dismissal, to receive credit for an equivalent amount upon the records of the College. Others will be received at the discretion of the Committee on Admission or by examinations held only at the College.

SPECIAL COURSES

Students, not candidates for degrees, may be permitted to pursue special courses, for proficiency in which certificates may be granted; but this permission will be granted only to students of ability and character sufficient to insure their success. They may become regular students by completing all the work required in the number of courses for full standing in any year.

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COURSES OF INSTRUCTION

GENERAL STATEMENT

Franklin and Marshall College aims to offer to the student an opportunity to secure such general culture as may tend to develop him into a useful citizen without preparing him for any special profession; to enlarge his scholarship, broaden his views and arouse an intelligent interest in all that is best in modern civilization. The course is based upon such intellectual discipline as has been established by centuries of testing as well as by channels opened up by modern scholarship whose value has been proved equal to that of any agencies employed in the past. Choice of electives is given to the student under such restriction as to secure reasonable breadth for the foundation on which his education is to be built.

The College offers two general courses of study leading to the two degrees of A.B. and Ph.B. The A.B. course requires the pursuit of the ancient languages, Latin and Greek, for two years, and one of them for one year more. An exception to this requirement is made in the case of students who begin Greek in the elementary course and who are required to take four years of Greek. The A.B. course also includes four years of modern languages, leaving room for choice between German and French.

The Ph.B. course includes two years of Latin with at least two years of German and two years of French, and a third year of either German or French. In science study the course is resolved into three different groups, viz., (1) one year of chemistry and three years of biology; (2) one year of biology and three years of chemistry; (3) one year of biology and one year of chemistry, with

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either calculus and advanced analytical geometry or applied electricity and physical measurements.

Each student is required to have at least seventeen hours of recitation or lectures, exclusive of gymnasium drill; and no credit will be given for more than five hours of the seventeen in one department. Two hours of laboratory work count as one hour of recitation.

PHILOSOPHY

DR. STAHR

The course of instruction in this department has two ends in view: To familiarize the student with the methods of philosophic thought and discipline the mind in thinking so as to look for the ultimate ground of knowledge; and to give him such a view of himself and of his relation to society, to nature and to God, that he will be able to correlate all the branches of learning in a system of liberal culture.

(*a*) PHILOSOPHY OF HISTORY.—A course of lectures with oral and written recitations. Sophomore requirement. One hour a week; first semester.

(*b*) PSYCHOLOGY.—The class begins the study of Psychology, taking up the study of the nervous system and its relation to consciousness. Sophomore requirement. One hour a week; second semester.

(*c*) PSYCHOLOGY.—Continues the study of Psychology, using the text-books of Thorndyke and Murray, with free lectures and recitations. Junior requirement. Two hours a week; first semester.

(*d*) ÆSTHETICS.—A course of lectures on Æsthetics, outlining the theory of the beautiful with its modifica-

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tions, the sublime and the comic. Afterwards the class studies the application of æsthetic principles in the development of art. Junior requirement. Two hours a week; second semester.

(*e*) ETHICS.—A course of lectures. The first part is devoted to Metaphysical Ethics, including a discussion of the nature of Freedom and the Formation of Character. The second part, or Practical Ethics, treats of the nature of Virtue, Duty and the Good, and the differentiation of the latter in the forms of Right, Social Co-integration and Religion. The lectures are accompanied by recitations, free discussions and essay writing. Senior requirement. Two hours a week throughout the year.

(*f*) PEDAGOGY.—Includes the study of the Philosophy of Education as well as the practical application of Pedagogic Principles. This course is important, not only to students who expect to teach, but also to others who desire a thorough grounding in the principles of true education and culture. Senior elective. Two hours a week throughout the year.

(*g*) LOGIC.—An optional course open to Juniors and Seniors. Two hours a week; second semester.

GREEK

DR. KIEFFER. PROF. HELLER

The study of Greek is required of all candidates for the degree of Bachelor of Arts, but is elective in the Junior and Senior years. The purpose aimed at in the department is to give the student such a mastery of the accidence and syntax of the language and such command of its vocabulary as will enable him to read simple Attic

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Greek with some degree of rapidity and ease, and at the same time to make him acquainted with Greek literature in all of its principal divisions, as illustrated by the works of its greatest writers, as well as familiar with the customs and institutions of the Greek people.

(*a*) For members of the Freshman class who have never had an opportunity to study Greek, but desire to gain at least an elementary acquaintance with it, a beginning class will be organized each year, provided a sufficient number of applicants present themselves to justify the establishment of such a course. Four hours a week throughout the year.

(*b*) A continuation of course *a*; designed to fit the student to take up the work of the Junior year. Sophomore elective. Three hours a week throughout the year.

(*c*) HERODOTUS, 6th or 9th book; Greek Prose Composition. Freshman A.B. requirement. Four hours a week; first semester.

(*d*) HOMER'S ILIAD, with scansion; Greek Prose Composition. Essays. Freshman A.B. requirement. Four hours a week; second semester.

(*e*) HOMER'S ILIAD finished. Plato's The Apology, or The Phædo, begun. Sophomore A.B. requirement. Three hours a week; first semester.

(*f*) PLATO'S THE APOLOGY, or The Phædo, completed; Demosthenes' Oration on the Crown. Essays. Sophomore A.B. requirement. Three hours a week; second semester.

(*g*) ÆSCHYLUS' THE AGAMEMNON, or The Prometheus Vinctus. Junior elective. Two hours a week; first semester.

(*h*) SOPHOCLES' THE ŒDIPUS REX, or The Antigone;

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Aristophanes' Clouds. Essays. Junior elective. Two hours a week; second semester.

(*i*) A COURSE IN GREEK LYRIC POETS, which consists of a detailed study of Pindar and Theocritus, complemented by private reading as illustrating the decline of the creative period of Greek literature and the rise of Hellenistic Greek. Senior elective. Two hours a week throughout the year.

(*j*) A COURSE IN NEW TESTAMENT GREEK.—This consists of a study of the grammar of New Testament Greek, a careful study of the Gospel of St. John or one of the Epistles of St. Paul, special reference being constantly had to the language; and the reading at sight of one of the Synoptic Gospels. Senior elective. Two hours a week throughout the year.

LATIN

DR. MULL. PROF. HELLER

The course in Latin is arranged to be in harmony with the general purpose of a four-year college course and it is taught and studied with the view to secure the best results attainable within these limits. The disciplinary value of the study is held to be of prime account. Constant stress is laid upon the requirements of close, careful and painstaking study in the preparation of the lessons assigned. Upon this presumption the class-room instruction proceeds, with steady reference to the needs and benefits of the largest number. The quality of the work done is rated above the quantity of ground covered. The aim is to afford every student the amplest opportunity to acquire a knowledge and free use of the means and methods of translation and intepretation; to form correct

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habits of study, and thus to furnish him with the equipment that is believed to be essential in any serious effort to gain conscious mastery of the subject in whole or in part. The literary values are not underestimated, but they are not made the subjects of technical instruction or the objects of critical study. They are used rather as stimulants for the quickening of the student's own powers of perception and appreciation of literary values in general, and as silent working factors in the process of mental culture. Here the aim is to nourish development from within by the cultivation of the literary feeling based on correct standards, thus placing within reach of the student an acquisition that is susceptible of indefinite enlargement.

(*a*) LIVY, I., XXI. and XXII. (Westcott).—Horace Odes (Moore). Exercises in Prose Composition. Freshman requirement. Four hours a week throughout the year.

(*b*) HORACE, Odes finished; Satires and Epistles (Rolfe); Juvenal's Satires. Sophomore requirement. Three hours a week throughout the year.

(*c*) CICERO, DE OFFICIIS (Rockwood); Pliny's or Cicero's Select Letters. Junior elective. Two hours a week throughout the year.

(*d*) THE HISTORIES OF TACITUS by Godley.—A critical study of the text, with a special collateral study of the Roman History writers. Senior elective. Two hours a week; first semester.

(*e*) A STUDY OF THE ROMAN DRAMA AND DRAMATIC LITERATURE, with lectures, and readings in Plautus and Terence; or selections from the Latin Fathers and Latin Hymns. Senior elective. Two hours a week; second semester.

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(*f*) LATIN PROSE WRITING.—Senior elective. One hour a week throughout the year.

MODERN LANGUAGES

PROF. FARNSWORTH

The first two years of modern language study are devoted to the acquirement of a working knowledge of the language itself, while the higher courses emphasize the study of the literature. Drill in pronunciation and the careful study of grammar begin the course, and the translation of easy texts is taken up as early as possible, thus laying the foundation for a working vocabulary. The work is progressively arranged throughout the course, grammar study leading up to syntax and advanced composition, while modern texts are followed by the works of the great writers of the eighteenth century, and instruction in special topics is given, ending in a general view of the literature.

The foreign language is used in the class-room as far as practicable, and an effort is made to train the student to express himself correctly in simple language, although it is realized that the ability to speak a modern language freely requires far more practice than can be had in a brief college course.

GERMAN

(*a*) FRESHMAN GERMAN.—Pronunciation, grammar, composition and dictation. Translation of simple texts. Freshman requirement for those taking the Ph.B. course and not offering German for admission. Candidates for the A.B. degree, while not required to do so, are advised to take this course in the Freshman year. Two hours a week throughout the year.

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(*b*) ADVANCED FRESHMAN GERMAN.—Grammar, composition and translation. For those Freshmen who have passed the entrance requirements in German. Two hours a week throughout the year.

(*c*) SOPHOMORE GERMAN.—Grammar, composition and translation. Sophomore Ph.B. requirement and A.B. elective. Two hours a week throughout the year.

(*d*) JUNIOR GERMAN.—Syntax and composition. Translation of modern prose. A play of Lessing and one of Schiller are read, and lectures on the development of the drama are given. Junior Ph.B. requirement and A.B elective. Two hours a week throughout the year.

(*e*) GOETHE'S FAUST.—Lectures on the History of German Literature. Composition and essays in German. Senior elective. Two hours a week throughout the year.

(*f*) SCIENTIFIC GERMAN. A course of reading in works covering a broad field of scientific and literary topics. Senior elective. One hour a week throughout the year.

FRENCH

(*a*) FIRST YEAR FRENCH.—Pronunciation, grammar, composition and dictation. Translation of simple texts. Freshman Ph.B. requirement; open to A.B. Freshmen and Juniors. Two hours a week throughout the year.

(*b*) SECOND YEAR FRENCH.—Grammar, composition, translation of modern texts. Sophomore Ph.B. requirement; open to A.B. Sophomores and Seniors who have passed in course (*a*). Two hours a week throughout the year.

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ENGLISH

PROF. WAGNER. PROF. CHAMBERS

In the courses outlined below, the Department of English aims at three objects: (1) An intelligent understanding of the origin and development of the English Language and Literature; (2) a general acquaintance with English Literature; (3) a reasonable proficiency in English Compositon.

(*a*) COURSE IN ENGLISH COMPOSITION, based on Newcomer's Elements of Rhetoric, with frequent exercises and class-room criticism. Freshman requirement. Two hours a week; first semester.

(*b*) THE PRINCIPLES OF ENGLISH VERSIFICATION, and the study of selected specimens of verse and prose from the writings of four representative American authors, with continued written work. Freshman requirement. Two hours a week; second semester.

(*c*) AN HISTORICAL SKETCH OF ENGLISH LITERATURE, on the basis of Brooke's Primer, with exercises in composition. Sophomore requirement. Two hours a week; first semester.

(*d*) A STUDY OF THE ENGLISH ESSAYISTS, with progressive reading of selected works. A special study of Burke—his character, opinions and prose style. His speeches on "Taxation" and "Conciliation" are read and discussed in the class-room. Compositions. Sophomore requirement. Two hours a week; second semester.

(*e*) LANGUAGE AND LITERATURE.—This course is devoted to a study of the English language, as revealed in the works of representative authors, due attention being given to the distinctive literary quality and artistic value

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of each work read. A critical reading of Spenser's Faery Queene, Chaucer's Prologue and part of the Knighte's Tale. Essays. Junior requirement. Two hours a week; first semester.

(*f*) A continuation of course (*e*). A critical reading of Langland's Piers the Plowman; The Ormulum and The Ancren Riwle, or other specimens of Middle English. Junior requirement. Two hours a week; second semester.

(*g*) LECTURES ON THE ELIZABETHAN DRAMA, with critical reading of selected plays of Marlowe, Ben Jonson, Beaumont and Fletcher, and Webster. Theses. Senior requirement. Two hours a week; first semester.

(*h*) Lectures on some period or some group of writers particularly noteworthy in the history of the literature, with thesis; a critical reading of Shakspere's As You Like It, Hamlet, and The Tempest; Milton's Comus and Lycidas; or of other works determined by the course. Senior requirement. Two hours a week; second semester.

(*i*) OLD ENGLISH.—An investigation of the beginnings and earlier developments of the English language and literature. Cook's First Book in Old English is used as the basis of this work. Senior elective. One hour a week; first semester.

(*j*) HIGHER RHETORIC.—This course consists of a study of higher rhetoric and the theory of English prose style. Lewes' Principles of Success in Literature is used as the basis, with critical readings of selected specimens and other collateral work. Senior elective. One hour a week; second semester.

(*k*) SHAKSPERE.—A critical reading, in chronological

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order, of as many of Shakspere's plays (Comedies, Histories, Tragedies, Romances) as time and circumstances may permit. The constant aim here is not only to familiarize the student with Shakspere's dramatic work, but to trace, in the plays as they were produced from year to year, the steady development of his mind and art. Senior elective. One hour a week throughout the year.

(*l*) LITERARY CRITICISM.—When requested by a sufficient number of those interested, a course in literary criticism is offered. This course may continue during one or both semesters. McLaughlin's Literary Criticism is the text-book; but the work consists chiefly of papers upon assigned topics, read and discussed by the members of the class. Senior elective. One hour a week throughout the year.

ORATORY

PROF. CHAMBERS

The aim of the department is to develop public speakers, not professional readers; to give to those who contemplate a professional career or participation in any kind of public discussion, a liberal education in the art of speech. Plain reading, which manifests the appreciation of the spiritual element of prose and poetry, is made the starting point of the three years' course, but reciting for mere entertainment's sake receives no attention. The whole range of literature, from the simple didactic to the complex dramatic is drawn upon for illustration and practice, but with the serious purpose of avoiding a one-sided development. The great object sought is the direct and vigorous delivery of original thought. Further, the idea is firmly held that the attainment of skill in an art must

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involve the training of the powers of reason, memory and observation, or it has no right to a place in a college curriculum, no matter how useful that art may be in a practical way. Oratory is considered as vitally connected with and fundamentally based upon the action of the mind in thinking. The student is taught that it is the manifestation of a process and not the symbolization of a product. He is taught to study his mental processes and their free, natural expression. The mind is treated as the cause and the voice and the body simply as means.

(*a*) PUBLIC READING AND SPEAKING.—The essential principles which underlie good public reading and speaking are carefully studied. Each student is required to commit to memory and deliver before the class, short orations and poems. Illustrative selections are used in applying the fundamental principles of expression to reading and speaking and in acquiring skill in the application of force, quality, pitch, time and emphasis. Instruction is given in platform movement, gesture and the proper attitude of the speaker to his audience. Orations are written by the members of the class upon assigned topics, criticized by the instructor and returned to the writers. The text-book used is Chambers' Practical Reader and Speaker. Sophomore requirement. One hour a week.

(*b*) A considerable portion of this course is given to the study of Baker's Principles of Argumentation. Invention and arrangement of arguments and the sources of persuasion are the principal topics. The remainder of the year is devoted to the practical application of the principles to oral discussion. The debates are on current questions of the day and are preceded by briefs. Elocu-

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tion is treated as only one of the necessary adjuncts. Junior elective. Two hours a week throughout the year.

(*c*) ORATORY AND ORATORS.—A consideration of the sources of success in oratory, together with a special study of the lives and works of certain orators. Lectures. This is followed by a consideration of the oratory of Europe, with considerable stress laid on British eloquence. Orations, less formal speeches, and declamations are expected from the students. Both the lives and speeches of masters of eloquence are studied and reports made thereon. Senior elective. Two hours a week; first semester.

(*d*) AMERICAN ORATORS AND ORATORY.—This is a continuation of course (*c*). Senior elective. Two hours a week; second semester.

ENGLISH BIBLE

DR. STAHR. PROF. APPLE

The study of the English Bible is based on the conviction that a knowledge of its historical facts, literary forms, modes of thought, and above all, of its ethical and religious teachings, is an essential element of all true culture. The work extends over four years, one hour a week and is required of all students unless excused for conscientious reasons.

(*a*) THE GOSPELS. Freshmen.

(*b*) OLD TESTAMENT HISTORY. Sophomores.

(*c*) THE ACTS OF THE APOSTLES AND THE EPISTLES. Juniors.

(*d*) OLD TESTAMENT HISTORY. A continuation of course (*b*). Seniors.

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HISTORY

DR. DUBBS

(*a*) A lesson in the text-book is assigned for every week, and students are required to prepare abstracts or brief essays for examination and discussion in the class-room. There is also a weekly lecture by the professor, of which the students take notes, on which they are frequently examined. Special subjects for investigation are announced, and on one of these every student prepares a thesis for examination and review at the end of the course. Thatcher's Short History of Mediæval Europe. Freshman requirement. Two hours a week; first semester.

(*b*) A continuation of course (*a*). Biographical essays and sketches of historic periods in addition to lectures and recitations. Passages indicated for collateral reading. An examination on the work of the year is held at the close of the course. Thatcher's Short History of Mediæval Europe. Freshman requirement. Two hours a week; second semester.

(*c*) Lectures by the professor, and brief abstracts or essays by the students in connection with each recitation. Examination of authorities and collateral reading. A thesis or an assigned theme, with indicated authorities, is required at the end of the course. Schwill's Political History of Modern Europe. Sophomore requirement for those who do not take chemistry in the Sophomore year.

(*d*) A continuation of the work of course (*c*). Lectures and recitations. Essays or abstracts constantly required. Examination of authorities and select passages for special study. An examination of the work of the year is held at the close of the course. Schwill's Political History of

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Modern Europe. Sophomore requirement for those who do not take chemistry in the Sophomore year. Two hours a week; second semester.

(*e*) HISTORY OF MODERN PHILOSOPHY.—A course of lectures devoted to the history of the development of thought from the Reformation of the sixteenth century to the present time. For collateral reading, Ueberweg, Bowen and Haven. Examinations and essays will be required. Junior elective. Two hours a week; first semester.

(*f*) CONSTITUTIONAL HISTORY OF ENGLAND.—Advanced course. Text-book: Macy's The English Constitution; but the work will be chiefly conducted according to the topical method, with Stubbs and Hallam for constant reference. Junior elective. Two hours a week; second semester.

(*g*) PREHISTORIC ARCHÆOLOGY.—Lectures with collateral reading. The course embraces the study of primitive art, with specimens and appropriate illustrations. Text-book: Keary's Dawn of History. Senior elective. Two hours a week; first semester.

(*h*) HISTORIC ARCHÆOLOGY.—This course embraces the history of art of ancient nations, especially with regard to its influence on their historic development. The concluding lectures are devoted to the minor archæologic sciences. Senior elective. One hour a week; second semester.

(*i*) AMERICAN LITERARY AND POLITICAL HISTORY.—Senior elective. One hour a week; second semester. Elson's History of the United States.

Seminar: In addition to the study of the general subject, individual students prepare and read reports on

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special subjects, which are discussed and corrected by the class in the presence of the professor.

POLITICS

PROF. HIESTER

(*a*) AMERICAN GOVERNMENT.—A general survey of civil government in the United States, which presupposes an elementary knowledge of the Federal Constitution. It includes a study of the origin, development and practical workings of the national government, a description of the state governments and their relation to the national government, an examination of the various forms of local and municipal government, and a brief account of political parties, their history, policies and machinery. Hart's Actual Government; Bryce's American Commonwealth. Sophomore elective. Two hours throughout the year.

(*b*) POLITICAL SCIENCE.—An analytical and historical examination of the modern state. The main topics considered are the nature and origin of the state, the province of government, the scope and content of individual liberty, the structure of the governments of the most important countries, and the place of political parties in the mechanism of modern government. Leacock's Elements of Political Science; Lowell's Governments and Parties in Continental Europe. Junior elective. Two hours throughout the year.

(*c*) AMERICAN CONSTITUTIONAL LAW.—Designed to give a knowledge of the general principles of the constitutional law of the United States. The growth and development of the Federal Constitution through judicial interpretation is carefully observed and the more im-

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portant decisions of the Supreme Court are analyzed. Cooley's Principles of Constitutional Law; Boyd's Cases on Constitutional Law. Two hours throughout the year. Given only in alternate years and open to both Juniors and Seniors. Omitted 1911–1912.

(*d*) INTERNATIONAL LAW.—A study of the nature, history, subjects and sources of international law, with particular reference to the history of American diplomacy and the part which the United States has played in the development of international law. Lawrence's Principles of International Law; Moore's American Foreign Policy. Two hours throughout the year. Given in alternate years and open to Juniors and Seniors. Omitted 1910–1911.

ECONOMICS

PROF. HIESTER

(*a*) GENERAL ECONOMICS.—An introduction to the principles of Political Economy. It is designed for the needs of the general student and embraces, in addition to a comprehensive study of the principles underlying the production, exchange, distribution and consumption of wealth, a rapid survey of the evolution of economic society, and a brief history of economic thought. Ely's Outline of Economics. Junior requirement. Two hours throughout the year.

(*b*) LABOR PROBLEMS.—A critical examination of the economic and social condition of the working classes of Europe and America, of woman and child labor, strikes, boycotts, arbitration, conciliation, profit-sharing, coöperation, socialism, trade unions, labor legislation and industrial education. Adams and Sumner's Labor Prob-

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lems; Common's Trade Unionism and Labor Problems. Senior elective. Two hours; first semester.

(*c*) INDUSTRIAL PROBLEMS.—A study of modern industrial combinations, their historical development, their economic and social effects, and their relation to federal and state legislation. Ripley's Trusts, Pools and Corpoations; Meade's Trust Finance. Senior elective. Two hours; second semester.

SOCIOLOGY

PROF. HIESTER

(*a*) GENERAL SOCIOLOGY.—An elementary course dealing with the structure and functions of contemporary society and the conditions and forms of social progress, with a brief survey of the history of sociological thought. Small and Vincent's Introduction to the Study of Sociology. Senior elective. Three hours; first semester.

(*b*) APPLIED SOCIOLOGY.—An advanced course dealing with certain problems of social psychology, such as suggestion, the mob mind, fashion, custom, conventionality, imitation, conflict, compromise and the formation of public opinion. Ross's Social Psychology. Senior elective. Three hours; second semester.

MATHEMATICS

DR. KERSHNER. PROF. APPLE

(*a*) ALGEBRA, including progressions, permutations and combinations, binomial theorem, series, logarithms and theory of equations. Text: Well's University Algebra. Freshman A.B. requirement. Two hours a week; first semester and part of second.

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(*b*) SOLID GEOMETRY.—Text: Wentworth's Plane and Solid Geometry. Freshman requirement. Two hours a week; first semester and part of second.

(*c*) DESCRIPTIVE GEOMETRY.—Freshman elective. Two hours a week throughout the year.

(*d*) THEORY OF EQUATIONS, including determinants and complex numbers. Text: Barton. Freshman Ph.B. requirement and A.B. elective. Two hours a week; second semester.

(*e*) TRIGONOMETRY, plane and spherical, including plane surveying. Texts: Ashton and Marsh's Plane and Spherical Trigonometry; Wentworth's Plane Surveying. Continued from second semester of Freshman year, four hours a week, through first semester of Sophomore year, three hours a week. Required study.

(*f*) ANALYTICAL GEOMETRY, including straight line, circle, parabola, ellipse and hyperbola, and loci of the second order. Text: Wentworth. Sophomore elective. Three hours a week; second semester.

(*g*) CALCULUS; differential, including the elements of differentiation and integration, Taylor's and Maclaurin's formulas, maxima and minima values of functions, tangents, normals, indeterminate expressions and curve tracing. Elective to Juniors who have had analytical geometry. Three hours a week; first semester.

(*h*) INTEGRAL CALCULUS continued, and differential equations with applications to problems in mechanics. Elective to those who have had elementary calculus. Three hours a week; second semester.

(*i*) ADVANCED ANALYTICAL GEOMETRY, including loci of second order, higher plane curves, and solid geometry. Junior elective. Two hours a week; first semester.

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(*j*) ELEMENTARY ANALYTICAL STATICS AND DYNAMICS. —Junior and Senior elective. Two hours a week throughout the year.

(*k*) COURSE IN MECHANICS with applications of the calculus suitable for students who expect to become engineers. Calculus required. Senior elective. Two hours a week throughout the year.

(*l*) COURSE IN DIFFERENTIAL EQUATIONS. — This course is suitable for students who wish to continue their course in pure mathematics or for engineering students who want to take advanced standing in engineering colleges. Courses (*g*) and (*h*) required. Elective. Second semester, one hour a week.

PHYSICS

DR. KERSHNER

(*a*) PHYSICS with laboratory demonstrations. Mechanics, sound, light and heat. University Physics, Carhart. Junior requirement. Three hours a week; first semester.

(*b*) PHYSICS with laboratory demonstrations, continued. Electricity and magnetism. Junior requirement. Three hours a week; second semester.

(*c*) PHYSICAL MEASUREMENTS IN MECHANICS AND HEAT.—Ames and Bliss. Junior elective. Two hours a week; first semester.

(*d*) PHYSICAL MEASUREMENTS, continued, in heat, light, electricity and magnetism. Junior elective. Two hours a week; second semester.

(*e*) APPLIED ELECTRICITY.—This includes measurements of electromotive forces, resistances, capacities,

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magnetic properties of iron; and efficiency and characteristics of dynamos. Elective to Juniors or Seniors who have taken Mathematics (*f*) and Physics (*b*). Two hours a week throughout the year.

(*f*) THEORY OF ELECTRICITY.—Required for course (*e*). Junior and Senior elective. One hour a week throughout the year.

ASTRONOMY

PROF. APPLE

(*a*) PRACTICAL ASTRONOMY, with work in the Observatory on the problems of time, latitude, longitude and azimuth. Text: Doolittle. Also method of least squares. Elective of those taking Mathematics (*g*). Two hours a week; first semester.

(*b*) A continuation of course (*a*) with advanced work in the Observatory. Two hours a week; second semester.

(*c*) GENERAL ASTRONOMY. Text: Young. Junior and Senior elective to those who have had plane and spherical trigonometry and elements of physics. Three hours a week; second semester.

BIOLOGY

DR. SCHIEDT

The study of biology is of prime importance in a modern curriculum of liberal culture. Its aim is: (1) To present from a scientific standpoint the main facts relating to form, function and relationship of the best types of plants and animals; (2) to bring the student face to face with the modern methods of biological investigation both in the laboratory and in nature; (3) to enable the

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student who takes the full course to properly grasp the trend of modern thought that has grown out of these investigations and has influenced all departments of life and learning, especially that of philosophy and pedagogy; (4) to pay particular attention to the preparation of young men for the higher requirements of university courses in Biology, Forestry and Medicine. To students who want to prepare for any branch of Economic Zoölogy, the museum is open with its library and collections. The curator offers special instructions to any one desiring such.

(*a*) INVERTEBRATE MORPHOLOGY.—Consists of introductory lectures, study of microscope, gross and microscopic dissection of about twenty types of invertebrates, and lectures and text-book studies on classification, habitat and phylogeny of the lower animals. Texts: Parker and Haswell, and Pratt's Laboratory Notes, Dew's Laboratory Manual. Sophomore requirement. Five hours laboratory a week, first semester and part of second.

(*b*) VERTEBRATE ZOÖLOGY.—Consisting of lectures on the comparative organography of the vertebrates and the dissection of dog-fish, frog, pigeon and cat. Texts: Parker and Haswell, and Pratt's Laboratory Notes. Junior elective. Three hours laboratory throughout the year.

(*c*) VERTEBRATE HISTOLOGY.—Text: Piersol; with lectures. Junior elective. Two hours a week throughout the year.

(*d*) ANIMAL PHYSIOLOGY.—An introductory course consisting of experiments in the physiology of muscle and nerve, of circulation, of respiration and of optics, followed by some essential experiments on the income of energy or physiological chemistry. Texts: Porter's Introduction and the American Text-book on Physiology with other

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references. Senior elective. Two hours a week throughout the year.

(*e*) VERTEBRATE HISTOLOGY.—A continuation of course (*c*). Senior elective. Two hours a week; first semester.

(*f*) EMBRYOLOGY OF THE CHICK.—Consisting of lectures, mounting of slides, etc. Text: Lillie's Embryology of the Chick. Senior elective. Two hours a week; second semester.

All the foregoing courses include extensive drawings and the presentation of note books. The laboratory periods are generally unlimited.

(*g*) GENERAL PLANT MORPHOLOGY.—Consisting of introductory lectures and of laboratory and field work on the most common types of Thallophytes, Bryophytes, Pteridophytes and Spermatophytes. Text: Leavitt's Outlines, Coulter's Morphology. Sophomore requirement. Two hours a week, latter half of second semester.

(*h*) SYSTEMATIC AND STRUCTURAL BOTANY.—Collection and study of 250 plants required. Texts: Brown and Britton, Gray's New Manual, DuBarry, Stevens' Plant Anatomy and Chamberlain's Methods of Plant Histology. Junior elective. Two hours a week throughout the year.

(*i*) PHYSIOLOGY AND ECOLOGY OF PLANTS.—Designed for the needs of forestry students. Senior elective. Text: Clement's Ecology and Physiology, also MacDougal and Ganong. Two hours a week throughout the year. Weekly experiments in the environment.

(*j*) BACTERIOLOGY.—Comprises manipulation of apparatus and study of essential methods of sterilization, incubation, staining, etc., classification. Texts: Abbott's

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Principles of Bacteriology, Jordan's General Bacteriology Moore's Laboratory Directions. Senior elective. One hour a week throughout the year.

(*k*) HUMAN ANATOMY.—Dissection of parts of human body. Elective. One hour a week extending through two years.

GEOLOGY

DR. SCHIEDT

While a purely elective study, Geology is recommended to all science students as a fitting conclusion of both the mechanical and the biological courses.

(*a*) DYNAMICAL AND STRUCTURAL GEOLOGY.—Recitations from text combined with the study of the Shaler-Davis models and photographs and the microscopic examination of rock types. Text: Scott's Introduction, LeConte's Elements, Chamberlain and Salisbury's College Geology. Senior elective. Two hours a week; first semester.

(*b*) HISTORICAL GEOLOGY.—A continuation of course (*a*). Senior elective. Two hours a week; second semester.

CHEMISTRY

PROF. BECK

The department of Chemistry offers to the Ph.B. and special student a course extending over four years. The work is planned to cultivate scientific spirit and habit, to instill modern methods of pure and applied chemistry, and to teach correct laboratory manipulation. With these purposes in view, the student is instructed in the theory of general analytical and organic chemistry with related subjects, and is required to spend a large part of

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his time in the laboratory. The graduate is in a position to take up any branch of chemistry intelligently and specialize on it, or the course fits him admirably for further work in medicine or other allied sciences.

To the A.B. student one year of general chemistry is given with an optional year of qualitative analysis. The object of this shorter course is to point out the chemical relations of common life and the world about us, and add practical information and an element of scientific training to a broad college course.

(*a*) GENERAL INORGANIC CHEMISTRY.—Lectures (with experiments) and recitations. The non-metals, metals and their compounds. Laboratory work. Text-book: Newell's Descriptive Chemistry with laboratory notes. Junior A.B. and Freshman Ph.B. requirement. Three hours a week throughout the year.

(*b*) QUALITATIVE ANALYSIS.—Qualitative separations of the metals and analysis of natural and artifical products. Chemical Philosophy and Stoichiometry (to accompany Qualitative Course). Laboratory work. Lectures and recitations. Text-books: Noye's, Prescott and Johnson's works on the subject; also Whiteley's Chemical Calculations. Senior elective for A.B. students. Sophomore requirement for those Ph.B. students who take their major work in the sciences in chemistry; elective for all others. Three hours a week throughout the year.

(*c*) QUANTITATIVE ANALYSIS.—Volumetric and gravimetric analysis of chemical compounds, ores, fertilizers, etc. Laboratory and lectures. Text-books: Talbot and Fresenius, supplemented with the methods of chemists who are specialists on particular determinations. Junior

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requirement for those Ph.B. students who take their major work in the sciences in chemistry; elective for all others. Four hours a week throughout the year.

(*d*) ADVANCED QUANTITATIVE ANALYSIS.—A continuation of course (*c*) with special determinations. Senior Ph.B. elective. Three hours a week throughout the year.

(*e*) BLOWPIPE ANALYSIS.—An elementary course in qualitative analysis in the dry way. The chief aim of this course is to assist in the identification of minerals. Lectures and laboratory. Reference book: Blowpipe Analysis by Brush. Senior Ph.B. elective. One hour a week; first semester.

(*f*) MINERALOGY.—Elementary course in physical, chemical and descriptive mineralogy. Laboratory: Practical exercises in determination of the more common mineral species. Text-book: Dana's Mineralogy. Senior Ph.B. elective. One hour a week; first semester.

(*g*) ASSAYING. Furnace assay of gold, silver, lead ores, etc. Laboratory. Text-book: Rickett and Miller's Notes on Assaying. Senior Ph.B. elective. Two hours a week; first semester.

(*h*) ORGANIC CHEMISTRY. Lectures, recitations on the chemistry of the typical compounds of carbon. Laboratory work. Determination of specific gravities, melting and boiling points, vapor densities. General organic analysis. Preparation of organic compounds. Text-book: Remsen's Introduction to the Study of the Carbon Compounds. Reference: Richter's Organic Chemistry (translated by Smith). Senior Ph.B. elective. Three hours a week; second semester.

Special courses, for men intending to enter upon any particular line of chemical work, can be planned by consultation with the professor in charge.

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SYNOPSIS OF A.B. COURSES

First Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Greek *c* or *a*	4	Phil. of Hist.	1	Psychology	2	Ethics	2	Economics *b*	2
Latin *a*	4	Greek *e* or	3	Greek *g* or	2	English *g*	2	Sociology *a*	3
German *a* or French *a*	2	Greek *b*	3	Latin *c*		Bible *d*	1	Mathematics *i*	2
		Latin *b*	3	German or French	2	Gymnasium Drill	2	" *j*	2
English *a*	2	German *c* or French *b*	2	English *e*	2	*Elective.*		" *k*	2
Bible *a*	1	English *c*	2	Bible *c*	1			Physics *c*	2
History *a*	2	Oratory *a*	1	Economics *a*	2	Pedagogy	2	" *e*	2
Mathematics *a*	2	Bible *b*	1	Physics *a*	3	Greek *i*	2	" *f*	1
" *b*	2	History *c*	2	Chemistry *a*	3	" *j*	2	Astronomy *a*	2
Gymnasium Drill	2	Mathematics *e*	3	Gymnasium Drill	2	Latin *d*	2	Biology *d*	2
Elective.		Biology *a*	2	*Elective.*		" *f*	1	" *e*	2
		Gymnasium Drill	2			German *e*	2	" *i*	2
German *a*	2	*Elective.*		Greek *g*	2	" *f*	1	" *j*	1
" *b*	2			Latin *c*	2	French	2	" *k*	1
French *a*	2	German *c*	2	German *d*	2	English *i*	1	Geology *a*	2
Mathematics *c*	2	French *b*	2	French	2	" *k*	1	Chemistry *b*	3
		Politics *a*	2	Oratory *b*	2	" *l*	1		
				History *e*	2	Oratory *c*	2		
				Politics *b*	2	History *g*	2		
				Mathematics *g*	3	Politics *c*	2		
				" *i*	2	" *d*	2		
				" *j*	2				
				Physics *c*	2				
				" *e*	2				
				" *f*	1				
				Astronomy *a*	2				
				Biology *b*	2				
				" *c*	2				
				" *h*	2				
				" *k*	1				

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SYNOPSIS OF A.B. COURSES

Second Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Greek *d* or *a*	4	Psychology	1	Æsthetics	2	Ethics	2	Economics *c*	2
Latin *a*	4	Greek *f* or	3	Greek *h* or Latin *c*	2	English *h*	2	Sociology *b*	3
German *a* or French *a*	2	Greek *b*	3			Bible *d*	1	Mathematics *i*	2
		Latin *b*	3	German or French	2	Gymnasium Drill	2	" *k*	2
English *b*	2	German *c* or French *b*	2					" *l*	2
Bible *a*	1			English *f*	2	*Elective.*		Physics *e*	2
History *b*	2	English *d*	2	Bible *c*	1			" *f*	1
Mathematics *a*	2	Oratory *a*	1	Economics *a*	2	Pedagogy	2	Astronomy *b*	2
" *b*	2	Bible *b*	1	Physics *b*	3	Logic	2	" *c*	3
Gymnasium Drill		History *d*	2	Chemistry *a*	3	Greek *i*	2	Biology *d*	2
		Biology *g*	2	Gymnasium Drill	2	" *j*	2	" *f*	2
Elective.		Gymnasium Drill	2			Latin *e*	2	" *i*	2
				Elective.		" *f*	1	" *j*	1
German *a*	2	*Elective.*				German *e*	2	" *k*	1
" *b*	2			Logic	2	" *f*	1	Geology *b*	2
French *a*	2	German *c*	2	Greek *h*	2	French	2	Chemistry *b*	3
Mathematics *c*	2	French *a*	2	Latin *c*	2	English *j*	1		
" *d*	2	Politics	2	German *d*	2	" *k*	1		
		Mathematics *f*	3	French	2	" *l*	1		
				Oratory *b*	2	Oratory *d*	2		
				History *f*	2	History *h*	1		
				Politics *c*	2	" *i*	1		
				Mathematics *h*	3				
				" *j*	2				
				" *k*	2				
				Physics *d*	2				
				" *e*	2				
				" *f*	1				
				Astronomy *b*	2				
				" *c*	3				
				Biology *b*	2				
				" *c*	2				
				" *h*	2				
				" *h*	1				

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SYNOPSIS OF PH.B. COURSES

First Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Latin *a*	4	Philos. of Hist.	1	Psychology	2	Ethics	2	Physics *c*	2
German *b*	2	Latin *b*	3	German *d*	2	English *g*	2	" *e*	2
French *a*	2	German *c*	2	English *e*	2	Bible *d*	2	" *f*	1
English *a*	2	French *b*	2	Bible *c*	1	Gymnasium Drill	2	Astronomy *a*	2
Bible *a*	1	English *c*	2	Economics *a*	2			Biology *d*	2
History *a*	2	Oratory *a*	1	Physics *a*	3	*Elective.*		" *e*	2
Mathematics *b*	2	Bible *b*	1	Gymnasium Drill	2			" *i*	2
Chemistry *a*	3	History *c*	2			Pedagogy	2	" *j*	1
Gymnasium Drill	2	Mathematics *e*	3	*Elective.*		Latin *d*	2	" *k*	1
		Biology *a*	2			" *f*	1	Geology *a*	2
Elective.		Gymnasium Drill	2	Latin *c*	2	German *e*	2	Chemistry *d*	3
				Oratory *b*	2	" *f*	1	" *e*	1
Mathematics *c*	2	*Elective.*		History *e*	2	English *i*	1	" *f*	1
				Politics *b*	2	" *h*	1	" *g*	2
		History *c*	2	Mathematics *g*	3	" *l*	1		
		Politics *a*	2	" *j*	2	Oratory *c*	2		
		Chemistry *b*	3	" *k*	2	History *g*	2		
				Physics *c*	2	Politics *c*	2		
				" *e*	2	" *d*	2		
				" *f*	1	Economics *b*	2		
				Astronomy *a*	2	Sociology *a*	3		
				Biology *b*	2	Mathematics *g*	3		
				" *c*	2	" *j*	2		
				" *h*	2	" *l*	2		
				" *k*	1	" *h*	2		
				Chemistry *c*	4				

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SYNOPSIS OF PH.B COURSES

Second Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Latin *a*	4	Psychology	1	Æsthetics	2	Ethics	2	Mathematics *h*	3
German *b*	2	Latin *b*	3	German *d*	2	English *h*	2	" *i*	2
French *a*	2	German *c*	2	English *f*	2	Bible *d*	1	" *k*	2
English *b*	2	French *b*	2	Bible *c*	1	Gymnasium Drill	2	" *l*	2
Bible *a*	1	English *d*	2	Economics *a*	2			Physics *d*	2
History *b*	2	Oratory *a*	1	Physics *b*	3	*Elective.*		" *e*	2
Mathematics *b*	2	Bible *b*	1	Gymnasium Drill	2			" *f*	1
" *d*	2	History *d*	2			Pedagogy	2	Astronomy *b*	2
Chemistry *a*	3	Biology *g*	2	*Elective.*		Logic	2	" *c*	3
		Chemistry *b*	3			Latin *e*	2	Biology *d*	2
Elective.		Gymnasium Drill	2	Logic	2	" *f*	1	" *f*	2
				Latin *c*	2	German *e*	2	" *i*	2
Mathematics *c*	2	*Elective.*		Oratory *b*	2	" *f*	1	" *k*	1
				History *f*	2	English *j*	1	Geology *b*	2
		History *d*	2	Politics *c*	2	" *k*	1	Chemistry *d*	3
		Politics *a*	2	Mathematics *h*	3	" *l*	1	" *h*	3
		Mathematics *f*	3	" *k*	2	Oratory *d*	2		
		Chemistry *b*	3	Physics *d*	2	History *h*	1		
				" *e*	2	" *i*	1		
				" *f*	1	Economics *c*	2		
				Astronomy *b*	2	Sociology *b*	3		
				" *c*	3				
				Biology *b*	2				
				" *c*	2				
				" *h*	2				
				" *k*	2				
				Chemistry *c*	4				

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DEGREES CONFERRED IN 1909

HONORARY DEGREES

Doctor of Divinity

Rev. Charles B. Schneder, of Shamokin, Pa.
Rev. Charles W. Levan, of Baltimore, Md.

Doctor of Science

Prof. Harvey A. Surface,
Economic Zoölogist of the State of Pennsylvania,
Harrisburg, Pa.

DEGREES IN COURSE

Bachelor of Arts

George Warren Bassler
Walter Palmer Boardman
John Adam Campbell
John Harry Coleman
Emory Mortimer Deitrich
Tilghman Stanley Derr
Chester Arthur Diller
Leon Schall Drumheller
Charles Leonard Ellmaker
John Henry Fahrenbach
Abraham Lincoln Gehman
Henry Snyder Gehman
Robert Earl Gipe
Warren Hoover Hershey
Warren Carpenter Hess
Milton Franklin Klingaman
Ira Reist Kraybill
Walter Cleveland Pugh
John Calvin Raezer
Alfred Machmer Rahn
Joseph Alfred Rothermel
Jacob Burkholder Sheetz
Isaac Shirk Simons
John Shirk Simons
Irwin George Snyder
Samuel Clinton Snyder
Preston Franklin Strauss
Harry Clay Symons
Boyd Fiedler Winkelblech
William Francis Yoder
Jacob Landis Zimmerman

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Bachelor of Philosophy

Glenroy Boozer
Jacob Bomberger Landis
John Elias Livingood
John Wealand Meck
Jacob Tanger

Master of Arts

David Frederick Aungst
Paul Heber Burk

DEGREES CONFERRED IN 1910

The following honorary degrees were conferred in connection with the Inauguration of Henry Harbaugh Apple, D.D., as president of Franklin and Marshall College at the services held in Fulton Opera House on January 7, 1910:

DOCTOR OF LAWS

Woodrow Wilson
Edgar Fahs Smith
Joseph Spangler Kieffer
William Mann Irvine
John Herr Musser

DOCTOR OF SCIENCE

Richard Conrad Schiedt

DOCTOR OF DIVINITY

Theo. Frederick Herman
Charles Ervin Creitz
Lewis Seymour Mudge

DOCTOR OF LETTERS

George Fulmer Mull
Amos Cornelius Rothermel
Ellwood Leitheiser Kemp

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DOCTOR OF PEDAGOGY

George Leslie Omwake

The prizes awarded in 1909 were as follows:

Wetzel Oratorical Prize.....Edgar S. Kramer
Buerhle German Prize.....Henry S. Gehman
Heine Second German Prize...William F. Yoder
Williams Fiction Prize.....Edgar D. Kramer
Keller Latin and Greek Prize..Edward H. Heffner

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FRANKLIN AND MARSHALL ACADEMY

INSTRUCTORS

THADDEUS G. HELM, A.M.,
Greek

EDWIN M. HARTMAN, A.M.,
German

MARTIN W. WITMER, A.B.,
English

GEORGE A. LAND, A.B.,
Latin

WILLIAM L. MACHMER, A.B.,
Mathematics and Science

EDWIN A. NACE, A.B.,
Mathematics and Latin

F. LYMAN WINDOLPH, A.B.,
English and French

JOHN B. LENTZ, A.B.,
Physical Director

JACOB B. LANDIS, A.B.,
History

CHARLES P. D. PETERS, A.B.,
Mathematics

WILLIS W. LANTZ
Mathematics

THOMAS J. WAGNER
Mathematics

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THE ACADEMY

History

Franklin and Marshall Academy was originally a preparatory department connected with Franklin College. After the union of Marshall College with Franklin College, this department was continued in immediate connection with Franklin and Marshall College, until 1872, when it was named Franklin and Marshall Academy, a new building was erected for its use and a separate faculty and management were appointed, so as "to make more ample provision for its efficiency and to enlarge its usefulness." An additional building was erected two years ago at a cost of $100,000.

Location

The Academy is located near Franklin and Marshall College.

The campus is the most elevated ground for miles around, affording good drainage, pure air, sanitary conditions and fine distant views of five to fifteen miles.

Aim

The aim of the Academy is well expressed in the words used nearly forty years ago in the resolution of the trustees changing the preparatory department to Franklin and Marshall Academy. It is to be "in the best and highest sense, a training school for boys who desire to go to college, and also to furnish a complete academical

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course for those who do not purpose taking a full collegiate course of study."

While seeking to develop right habits of study and accurate scholarship, the school endeavors also to develop and mold the sound Christian character, which is more important than scholastic efficiency. Students are taught that hard, honest work is one of the most important factors in forming character. The influences of Christianity are constantly employed as the most effectual means of establishing principles of sound, practical morality.

BUILDINGS

The new building, large, beautiful, well-planned, finished in hard wood, modern in every detail and substantially built, at a cost of $100,000, was occupied last year. It is about 215 feet long, running north and south, has two wings, 40x75 feet, and a chapel built west of the main building, seating about 350 boys. In the center of the building is a large, square hall, finished in dark oak, with a large fire place and heavy mission furniture. This is used as a general living room and game room and is a fine feature for the school. South of this is the colonial dining room. To the north are the reading room and offices. On the west side is the entrance to the chapel. In the north wing are recitation rooms and a school room seating one hundred boys at single desks. In the south wing are the principal's apartments, school kitchen, servants' apartments, etc. The second and third floors are dormitories. About one-half of the students can be accommodated in single rooms, or two boys in two communicating rooms, and the balance

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in double rooms with single beds, two large closets, two chiffoniers, a table and three chairs, all of the mission type. On each dormitory floor there are three bath rooms, with terazzo floors, tile wainscoating, marble shower baths, Standard fixtures and the most sanitary plumbing. Every boy in school has a Merrit metal locker in the basement.

The electric wiring is all conduit. There are no furnaces in the main building. A fire stairwell extends from the top floor to the basement, with exits from each floor and from basement. There are also three other stairways. Several fire lines are installed with outlets and hose on each floor to reach any part of the building, and in various other ways the danger from fire is reduced to a minimum. The official inspector has pronounced the building ideal in point of safety. It is heated by the Trane vacuum system of steam heating. Nothing is wanting for the convenience, comfort and health of the students.

The old building is of brick, three stories high, in excellent repair and beautifully located on the northern end of the campus, about two hundred yards from the new one. It is used as an additional dormitory. The rooms are large, well-lighted and comfortable. The building is equipped with electric light, steam heat, hot and cold water shower baths, and all modern conveniences.

LIVING ARRANGEMENTS

All boarding students of the Academy are required to live in one of these buildings.

The principals live in private apartments, one in each

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dormitory building. The teachers live in the dormitories with the boys, several on each hall.

In case of slight illness students are placed in the infirmary, fitted for that purpose. For serious illness the student will be given a room in the Lancaster General Hospital, with care of the physician and trained nurse free of charge.

PHYSICAL TRAINING

The school aims to encourage such physical exercise in the gymnasium and on the athletic field as will conduce to the proper development of the student and to the physical condition most favorable to good school work. Students are required to take the drill under the director in the gymnasium regularly during the winter. The Academy boys have their own foot-ball, base-ball, basket-ball and track teams, which are under the direction of their own competent coach and have their own athletic grounds. They have the privilege of using the college athletic field nearby for playing match games. During the fall and spring terms, boys are encouraged to spend all possible spare time on the athletic field, in sports, or in tramping over the beautiful country and visiting the numerous accessible points of interest.

The Academy gymnasium is in the basement of the new building. The room has nearly 3,000 feet of clear space, a fifteen foot ceiling and ten windows. This affords ample space, light and air for the usual class drills and for practice with the simple equipment of the average gymnasium. Next to the gymnasium are two large locker rooms, with a metal locker for every boy. Adjoining the locker rooms is a toilet and bath room with

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a number of hot and cold water shower baths. Members of all teams, after practice on the athletic field, are required to enter the building by the basement entrance, change clothes and take a shower bath before going to the upper part of the building.

LIBRARIES AND READING ROOMS

The reading room of the Academy, with about thirty of the best papers and magazines, is always open to students except during recitation and study hours. Academy students also have access to the reading room of the college, which receives over one hundred of the best papers and magazines of this country, together with a number of the leading foreign reviews. The college library and the libraries of the literary societies, within five minutes' walk of the school, aggregating about 50,000 volumes, are open to Academy students without any charge. In these respects, the school affords exceptional advantages for college preparatory students.

LITERARY SOCIETIES

Every boarding student is required to be a member of either the Franklin Literary Society or the Marshall Literary Society. The meetings are conducted by the students, so as to make them acquainted with the rules which hold in deliberative assemblies, but the exercises are under the direction of certain members of the faculty, who are always in attendance, so as to insure careful work and definite results.

There is an annual inter-society debate and a permanent record of the result is made every year on a tablet,

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which is placed on the walls of the reading room. A second annual contest is held to determine the merits of the individual debaters. A first prize of $15 is given to the best debater, and a second prize of $10 to the second best.

RELIGIOUS MEETINGS

All students, unless excused at the written request of parents, attend prayers in the Academy chapel every morning before the work of the day is begun.

All students except those of other than Protestant denominations, are required to attend Sunday morning worship in the College chapel with the college congregation. At the written request of parents, students who are members of other than Protestant denominations may attend the church of their own faith in the city.

One Sunday morning each month and every Sunday evening students are permitted, upon request at the office, to attend any church in the city, preferably one of their own faith. Each student reports at the office on returning after any service.

A Young Men's Christian Association is maintained by the student body. Meetings, in charge of the boys, are held every Wednesday evening, which are usually addressed by several of the boys, by some member of the faculty or by some one else secured for the purpose.

ACADEMY AND COLLEGE

The proximity of the Academy to an old classical college secures to the students a literary atmosphere and the benefits of numerous literary exercises, debates, lectures, etc., which only such a college community can

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afford. The Academy is sufficiently removed from the College to avoid the intimate association and intercourse of college and academy students, which is often found objectionable at institutions where these two classes are constantly thrown together.

GRADUATION

A student of the school who has satisfactorily completed the work of any regular course of study, is eligible for graduation with the award of the school's diploma. A student who has not completed a full course may receive a certificate of credit for such work as he has satisfactorily passed. The diploma is accepted in lieu of examination for entrance to Franklin and Marshall College.

SPECIAL CLASSES

Young men who teach during the winter may come to the Academy to do college preparatory work in the spring term. These are frequently young men of more than average ability and maturity, who desire work in a few subjects only. For these students, special classes are organized every spring term. This enables them to enter the school and work to better advantage than if they were to enter the regular classes.

SUMMER TERM

For students who have deficiencies to make up, and for any others desiring work in the line of college preparation, a summer term of six weeks is offered. The work of this term is so arranged that students who desire only one or two subjects have opportunity to cover any

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amount of ground justified by their ability and industry. The tuition for the six weeks is fifteen dollars. The room and board, which students procure for themselves during this term at private or boarding houses near the school, cost from four to four and a half dollars per week. The summer term of 1910 will open Monday, June 20.

EXPENSES

Tuition, boarding, furnished room with light and heat, washing and hospital fee, per school year, $300 and $350.

Tuition for day students, per school year, $75.

There are no extra expenses except for books and a $3 diploma fee upon graduation.

A separate catalogue of Franklin and Marshall Academy giving full particulars of the courses and regulations will be sent on application.

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REGISTER OF COLLEGE STUDENTS

Graduate Students

Adam Ray Ackerman, A.B. (1908),	Easton, Pa.
Robert Arthur Beyer, A.B. (1904),	Lancaster, Pa.
Thomas Jacob Bright, A.B. (1903),	Bremerton, Wash.
Calvin Austin Brown, A.B. (1903),	Mercersburg, Pa.
George Charles Clever, A.B. (1903),	Hagerstown, Md.
Ray Harbaugh Dotterer, Ph.B. (1906),	Rockwood, Pa.
Henry Snyder Gehman, A.B. (1909),	Paradise, Pa.
Alfred Jasper Herman, A.B. (1903),	Mainville, Pa.
John Nevin Land, A.B. (1907),	Wyomissing, Pa.
William Lawson Machmer, A.B. (1907),	Lancaster, Pa.
Cyrus Cleveland Meyer, A.B. (1908),	Washington, Pa.
Edwin Allen Nace, A.B. (1904),	Lancaster, Pa.
John Guise Rossman, A.B. (1908),	Spring Mills, Pa.
Frederick Augustus Rupley, A.B. (1888),	Mechanicsburg, Pa.
Isaac Shirk Simons, A.B. (1909),	Lehighton, Pa.
Howard Ernest Slagenhaup, A.B. (1907),	Lancaster, Pa.
Lloyd Ephraim Strohm, Ph.B. (1905),	Lancaster, Pa.
Levi Nevin Wilson, A.B. (1903),	Hiawatha, Kan.

Senior Class

A.B. Course

Leon Milton Arner, 445 West James Street	Weissport, Pa.
Nathan Herald Corman, 448 West James Street	Coburn, Pa.
Howard Elsward Creitz, 660 West Walnut Street	Slatington, Pa.
Howard Hoch DeLong, 413 Charlotte Street	Virginville, Pa.
Arthur Bertram Gabel, 722 North Lime Street	Lancaster, Pa.
Jacob Boise Glick, 123 Juniata Street	Lancaster, Pa.

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Addison Hershey Groff, Jr., 420 Dauphin Street	Lancaster, Pa.
Edward Daum Haertter, 415 West James Street	Mountville, Pa., R. D. 1
Valentine Gass Hartman,* 445 West James Street	Oley, Pa.
Arthur Rupp Hartzell, 419 Charlotte Street	Allentown, Pa.
Harry Lightner Heckel, Lancaster, Pa., R. D. 5	Lancaster, Pa., R. D. 5
Amos Carpman Henry, 136 College Avenue	Penbrook, Pa.
William Nies Kline, 448 West James Street	Berks P. O., Pa.
Edgar Daniel Kramer, 536 West James Street	Glenville, Pa., R. D. 1
James Thomas Lane, 141 East James Street	Lancaster, Pa.
Willis Weaver Lantz, 417 Charlotte Street	Strasburg, Pa.
Edwin Oliver Marks, 415 West James Street	Allentown, Pa.
Jacob Gibble Meyer, 538 West Lemon Street	Fredericksburg, Pa.
Theodore Wayne Miller, 660 West Walnut Street	Fritztown, Pa.
William Shultz Raub, Marietta Avenue	Lancaster, Pa.
Gordon Nevin Rebert, 534 West James Street	Littlestown, Pa.
John Morris Scholl, 445 West James Street	Telford, Pa.
Augustine Smith, 660 West Walnut Street	Mahanoy City, Pa.
Herman Geary Snyder, 136 College Avenue	Clear Spring, Md.
Thomas Jefferson Wagner, F. & M. Academy	Shamokin, Pa.
Charles Geiger Watt, Marietta Avenue	Lancaster, Pa.
James Watt, Marietta Avenue	Lancaster, Pa.
Henry Edgar Weisel, 415 West James Street	Perkasie, Pa.
John Claten Werner, 534 West James Street	Myersdale, Pa., R. D. 3
Mark Nevin Wickert, 413 Charlotte Street	Denver, Pa.

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PH.B. COURSE

Charles Raymond Brenner, 428 West King Street	Lancaster, Pa.
Tom Cummings, 413 South Lime Street	Lancaster, Pa.
Marion Wiest Emrick, 536 West James Street	Shamokin, Pa.
William Norman Fenninger, Kinzers, Pa.	Kinzers, Pa.
Harry Abram Grove, 536 West James Street	Welsh Run, Pa.
Leon Edward Humphreville, 51 West Strawberry Street	Lancaster, Pa.
Alfred Ross Walter,* 433 North Charlotte Street	Harrisburg, Pa.
George Merle Whitmore, Millersville, Pa.	Millersville, Pa.

SPECIAL

John Hazlette Turner,* 711 North Duke Street	Lancaster, Pa.

JUNIOR CLASS

A.B. COURSE

Robert Moser Adam, 417 Charlotte Street	Temple, Pa.
Jeremiah Paul Adam, 445 Nevin Street	Virginville, Pa.
Henry Dodge Appenzeller,* 730 North Lime Street	Lancaster, Pa.
James Louis Brant, 534 West James Street	Friedens, Pa.
George Robert Palmer Byerly,* 329 West James Street	Lancaster, Pa.
Eugene Peyton Deatrick, 524 West James Street	Kutztown, Pa.
Donald Rogers Gardner, 130 South Prince Street	York Springs, Pa.
Harold Rau Geisenberger, 651 West Chestnut Street	Lancaster, Pa.
Christian Risser Gingrich, 660 West Walnut Street	Lawn, Pa.
Cyrus Tobias Glessner, 534 West James Street	Berlin, Pa.
Frederick Marshall Grove, 419 Charlotte Street	Turtle Creek, Pa.

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George Nevin Hartman, 445 West James Street	Littlestown, Pa.
Edward Hoch Heffner, 433 Charlotte Street	Dryville, Pa.
Benjamin Brubaker Herr, Lancaster, Pa.	Lancaster, Pa., R. D. 1
William Edwin Hoy, New Providence, Pa.	Yochow, Hunan, China.
George Neiman Kemp, 415 West James Street	East Stroudsburg, Pa.
William Kistler Klingaman, 660 West Walnut Street	Jacksonville, Pa.
David Berto Kraybill, 345 West James Street	Maytown, Pa.
William Austin Kreider, 445 West James Street	Rawlinsville, Pa.
Hiram Swarr Kremer, 402 West James Street	Harrisburg, Pa.
David Myers Landis, Lancaster, Pa.	Lancaster, Pa., R. D. 7
Leonard Llewellyn Leh, 345 West Lemon Street	Coplay, Pa.
Nicholas Pattison Luckenbill, 443 Nevin Street	Virginville, Pa., R. D. 1
Harold Brandt Miller,* 445 West James Street	East Greenville, Pa.
Darwin Wertz Noll, 451 East Orange Street	Mountville, Pa.
Joseph William Richards, College Campus	Lancaster, Pa.
Wallace Lehr Robinson, 420 North Queen Street	Lancaster, Pa.
Orford Ural Schaeffer, 660 West Walnut Street	Saylorsburg, Pa., R. D. 1
Walter Groff Schwab, 534 High Street	Lancaster, Pa.
Howard Scott Spahn, 601 West Lemon Street	Spangsville, Pa.
John Wilson Speicher,* 448 West James Street	Reading, Pa.
William Penrose Stamm,* 448 West James Street	Altoona, Pa.
John Franklin Troupe,* 448 West James Street	Milroy, Pa.
Paul DeWitt Turner, 711 North Duke Street	Lancaster, Pa.
Elliott Critchfield Weller, 534 West James Street	Gebhart, Pa.

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Howard James Yeager, 660 West Walnut Street	Monterey, Pa.

PH.B. COURSE

Charles Grover Alexander,† 439 Nevin Street	Shoff, Pa., R. D. 1
Guy Dillman Bomberger, 402 West Lemon Street	Lititz, Pa.
John Kryder Evans, 536 West James Street	Hawthorne, Pa.
William Freeman Hoffman, 433 Charlotte Street	Scottdale, Pa.
William Edwin Keefer, 408 North Queen Street	Lancaster, Pa.
George Harold Kinard, Leacock, Pa.	Leacock, Pa.
Jesse Franklin Leonard, 536 West James Street	Marysville, Pa.
Merle Raymond Moritz,* 660 West Walnut Street	Gettysburg, Pa.
Thomas Christian Peightal, 560 West James Street	Altoona, Pa.
Henry Weber Pifer, 536 West James Street	Punxsutawney, Pa.
Owen Webster Saylor, 415 West James Street	Johnstown, Pa.
Henry Clinton Seitz, 448 West James Street	Glen Rock, Pa.
Wallace Goldey Wade, 725 North Duke Street	Lancaster, Pa.
Enos Alderfer Wampole, 601 West Lemon Street	Harleysville, Pa.
John Leonard Warfel, 310 North Lime Street	Lancaster, Pa.

SPECIAL

Lauriston Benjamin Herr, 604 West James Street	Lancaster, Pa.
Charles Albert Peterson, 339 Nevin Street	Lancaster, Pa.
Irving Charles Rhodes, 231 East Clay Street	Lancaster, Pa.
Heyward Miller Spangler,* 328 West Lemon Street	York, Pa.
Leslie Isaac Bolton,* 658 West Walnut Street	McCalls Ferry, Pa.
Landis Hess Brubaker,* Rohrerstown, Pa.	Rohrerstown, Pa.

†Deceased

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Clarence Bernhart Schmidt,* 560 West James Street	Xenia, Ohio.
Charles Grove Alexander,	died June 10, 1909.

SOPHOMORE CLASS

A.B. COURSE

Howard Ellwood Ammerman, 413 Charlotte Street	Shamokin, Pa.
William Lloyd Anderson, 433 Charlotte Street	Allentown, Pa.
Calvin George Bachman, 402 West Lemon Street	Lynnport, Pa.
Henry Miller Bassler, 144 East James Street	Lancaster, Pa.
Clarence Edward Batschelet, 501 West James Street	Lock Haven, Pa.
Philip Henry Bridenbaugh, 560 West James Street	Martinsburg, Pa.
Walter Patterson Cassel, Marietta, Pa.	Marietta, Pa.
Henry Earle DeHaven, 560 West James Street	Salisbury, Pa.
Guy Linton Diffenbaugh, Lancaster, R. D. 6	Lancaster, Pa., R. D. 6
James Heber Dorman, 448 West James Street	Lewistown, Pa.
Howard Emerson Gayley, 433 Charlotte Street	Howe, Pa.
John Richard Hahn, 543 North Mary Street	Reading, Pa.
Robert Reiff Hartzell, 547 West Lemon Street	South Perkasie, Pa.
Russell Lowell Leaver Hunter, Ephrata, Pa.	Ephrata, Pa.
Victor Herbert Jones, 339 Nevin street	Shanksville, Pa.
Jacob Franklin Kauffman, 435 Charlotte Street	Greensboro, Md.
Joseph Iddings Lauffer, 607 West Lemon Street	Irwin, Pa.
John Gabriel Long, 604 East Chestnut Street	Lancaster, Pa.
Grover Cleveland Maus, 517 West James Street	Taneytown, Md., R. D. 1
Harrison Irving Cleveland Miller, 517 West James Street	Glencoe, Pa.

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Harvey Joseph Miller, 660 West Walnut Street	Topton, Pa.
Oliver Eugene Mosser, 402 West Lemon Street	Neffs, Pa.
Charles Beidler Moyer,* 402 West Lemon Street	Oley, Pa., R. D. 4
Paul Reid Pontius, 536 West James Street	Butler, Pa.
Homer Franklin Rebert, 534 West James Street	Littlestown, Pa.
Adam Frederick Rentz,* 448 West James Street	Wyomissing, Pa.
Charles Elmer Resser,* Lititz, R. D. 3	E. Berlin, Pa.
Lloyd Ferner Rumbaugh, 560 West James Street	Mt. Pleasant, Pa.
Paul Franklin Schaffner, 445 West James Street	Hummelstown, Pa.
Charles William Weimberd Shantz, 534 West James Street	Allentown, Pa.
Robert Paul Schearrer, 503 West James Street	Reading, Pa.
James Ray Shepley, 29 East James Street	Harrisburg, Pa.
John Pattison Singley,* Manheim, Pa.	Manheim, Pa.
Charles Edwin Sohl, 828 West Lemon Street	Lancaster, Pa.
William Allen Sohl, 828 West Lemon Street	Lancaster, Pa.
Wilford Gilbert Stauffer,* New Holland, Pa.	New Holland, Pa.
†Earl Landis Stehman, Rohrerstown, Pa.	Rohrerstown, Pa.
Charles Andrew Tome, Maytown, Pa.	Maytown, Pa.
Jacob Neuhauser Troyer, Bird-in-Hand, Pa.	Bird-in-Hand, Pa.
Daniel Jacob Wetzel, F. & M. Academy	Beavertown, Pa.
Raymond Evers Whitmore, Millersville, Pa.	Millersville, Pa.
Harry Zell, New Holland, Pa.	New Holland, Pa.

†Deceased

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PH.B. COURSE

Merle Meredith Alexander, 448 West James Street	Naginey, Pa.
Edwin Aston, 560 North Queen Street	Lancaster, Pa.
Harry Augustus Aukamp, 108 East Vine Street	Lancaster, Pa.
Charles Hershey Burns, 244 East Orange Street	Lancaster, Pa.
David Clinton Colebaugh, 501 West James Street	Claysburg, Pa.
Earl Walton Diffenbaugh, 131 East Clay Street	Lancaster, Pa.
Rexford Bell Hartle, 660 West Walnut Street	Hagerstown, Md.
Robert Lee Hartle,* 828 West Lemon Street	Hagerstown, Md.
Leigh Peoples Helm, New Providence, Pa.	New Providence, Pa.
Martin Kendig Herr, 17 North Shippen Street	Lancaster, Pa.
Christian Maurice Hershey, Gordonville, Pa., R. D. 1	Gordonville, Pa., R. D 1
Joseph Swift Irwin, 339 Nevin Street	Woodstock, Va.
John Leslie Kendig, 138 East Lemon Street	Lancaster, Pa.
Webster Usner Killian,* 832 West Lemon Street	Reamstown, Pa.
Herbert Mumma Levan, 445 West James Street	Penbrook, Pa.
Benjamin Willis Moyer, 546 West Chestnut Street	Lancaster, Pa.
Arthur Phenegar Mylin, Leaman Place, Pa.	Leaman Place, Pa.
Robert Martin Oberholser, 332 West Lemon Street	Liouville, Pa.
Robert Burns Taylor, 428 Lancaster Avenue	Reidenbach, Pa.
Clyde Eugene Thomas, 441 Pine Street	Adamstown, Md.
Frank King Troutwine, 445 West James Street	Tyrone, Pa.
Allan Billyeu Wallace, 241 East Orange Street	Lancaster, Pa.
Charles Henry Wehler, 534 West James Street	Hanover, Pa.

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William Edwin Weisgerber, 502 West James Street	Luthersburg, Pa.
Frank Pattison Werner, 558 West James Street	Orwigsburg, Pa.
Herbert Ralph Werner, 558 West James Street	Orwigsburg, Pa.
Leo Addison Wolfe, 560 West James Street	Maytown, Pa.

SPECIAL

Robert North Burkholder. 445 West James Street	Reading, Pa.
Walter Randolph Clark, 553 West Lemon Street	Richland Center, Pa.
Harry Henry Kurtz,* 415 West James Street	Fullertown, Pa.
Roy Leslie Lewis, Washington Boro, Pa.	Rosenhayn, N. J.
Harold Attig Miller, 341 Nevin Street	Harrisburg, Pa.
Daniel Herr Nissley, 129 East Clay Street	Lancaster, Pa.
William Avery Phillis,* Wrightsville, Pa.	Wrightsville, Pa.
Frank Wiley Sprecher,* 25 North Shippen Street	Lancaster, Pa.
Joaquin Joseph Vallarino,* 415 West James Street	Panama, S. A.
Harry Landis Stehman, Rohrerstown, Pa.	Rohrerstown, Pa.

FRESHMAN CLASS

A.B. COURSE

Louis Birinyi, F. & M. Academy	Damak, U. P. Hangacs, Hungary.
Howard Minnich Bowman, 740 Chester Street	Lancaster, Pa.
Moses H. Brackbill, 520 South Shippen Street	Lancaster, Pa.
Owen Peterson Bricker, Jr., 311 North Duke Street	Lancaster, Pa.
Raymond Michael Bright, 448 West James Street	Bernville, Pa.
John Andrew Frantz, 321 East King Street	Lancaster, Pa.
Austin Leonard Grove, 448 West James Street	Glen Rock, Pa.

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Ralph Ellis Hartman, 445 West James Street	Littlestown, Pa.
John Jacob Hess, Kinzers, Pa.	Kinzers, Pa.
Elmer Rhodes Hoke, 510 West James Street	Newark, N. J.
John Hunt, 437 West James Street	Riegelsville, N. J.
J. Egbert Imler, 502 West James Street	Osterburg, Pa.
Estes Bilger Landis, 415 Pine Street	Tylersport, Pa.
Charles de LeFond, 540 Lancaster Avenue	Baltimore, Md.
Simon Lehman, Willow Street, Pa., R. F. D. 1	Willow Street, Pa., R. D. 1
William Erdman Montgomery, 415 West James Street	Chambersburg, Pa.
Edward Louis Nolting, 836 West Lemon Street	Columbia, Pa.
William Martin Roberts, 444 Nevin Street	Altoona, Pa.
Edwin Blaine Romig, 418 West James Street	Reading, Pa.
Homer Bauman Saul, 534 West James Street	Delmont, Pa.
Robert Beatty Saxman, 660 West Walnut Street	Latrobe, Pa.
Ara Alva Schaeffer, 660 West Walnut Street	Kunkletown, Pa.
John Leinbach Schaeffer, 501 West James Street	Reading, Pa.
Frank Slough Schwartz, 414 Charlotte Street	Hagerstown, Md.
Louis Malone Smith, 448 West James Street	Derry, Pa.
Paul Jay Sykes, 445 West James Street	Troutville, Pa.
Paul Conner Wagner, 418 West James Street	Reading, Pa.
Joseph Buch Wissler, Lititz, Pa.	Lititz, Pa.

PH.B. COURSE

George Elder Brinton, 534 West James Street	Oxford, Pa.
Jacob Clark Henneberger, 560 West James Street	Greencastle, Pa.
Tobias Leonhard Jaeger, 445 West James Street	Dubuque, Iowa.

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Raymond Bitzer Leinbach, 501 West James Street	Reading, Pa.
Louis Jacob Livingood, 560 West James Street	Womelsdorf, Pa.
Ralph Henderson Maclay, 448 West James Street	Belleville, Pa.
Robert Barr Maclay, 448 West James Street	Belleville, Pa.
George Williard Metger, 435 Charlotte Street	Frostburg, Md.
Ralph Lewis Reber, 503 West James Street	Reading, Pa.
Benjamin Wade Shaub, 246 East Orange Street	Lancaster, Pa.
Hiram Grant Straub, 513½ West James Street	Minersville, Pa.

SPECIAL

Harry Delmo Cox, 560 West James Street	New York, N. Y.
Walter Cosgrove Dickey, 558 West James Street	Houtzdale, Pa.
David Lamp Fleck, 558 West James Street	Altoona, Pa.
William Steele Kepple, 343 Nevin Street	Greensburg, Pa., R. D. 2
Charles Snyder Philippi, 513½ West James Street	Confluence, Pa.
Lee Cephas Thomas, 441 Pine Street	Adamstown, Md.
Robert Sanford Tussey, 560 West James Street	Waterstreet, Pa.
Robert Hoffman Walp, 502 West James Street	Richland Centre, Pa.

The above list includes the names of all students who were connected with the College between April, 1909, and April, 1910. Students whose names are marked thus * have not been regular in their respective classes since June, 1909.

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REGISTER OF ACADEMY STUDENTS

Ackerman, Charles M.	Lancaster, Pa.
Agnew, Robert L.	Oakmont, Pa.
Anquinos, de, Alexander M.	New York, N. Y.
Ambler, A. Levis	Drumore, Pa.
Appel, Kenneth E.	Lancaster, Pa.
Aungst, Daniel L.	Landisville, Pa.
Bachman, James W.	Switzer, Pa.
Bard, Geo. P.	Leacock, Pa.
Bassett, James E.	Sparrow's Point, Md.
Batdorf, John W.	Lancaster, Pa.
Bateman, Russel L.	Wilkinsburg, Pa.
Bausman, John M.	Bausman, Pa.
Bausman, David H.	Bausman, Pa.
Bausman, F. Warren	Bausman, Pa.
Beck, C. Fred.	Cressona, Pa.
Bletz, Paul H.	Mountville, Pa.
* Birinyi, Louis	Damak, U. P. Hangacs, Hungary.
Bowman, Paul J.	Pillow, Pa.
* Brackbill, Moses H.	Lancaster, Pa.
Brant, Park S.	Friedens, Pa.
Brewbaker, Charles W.	State Line, Pa.
Bridenbaugh, John R.	Union Furnace, Pa.
Brinkman, Franklin	Lancaster, Pa.
† Brinton, Charles P.	Gap, Pa.
* Brinton, George E.	Oxford, Pa.
Brobst, Valentine	Lititz, Pa.
Brown, William M.	Strasburg, Pa
Brown, J. Hay	Lancaster, Pa.
Browne, Geo. Davenport	Lancaster, Pa.
Brubaker, J. Harold,	Bird-in-Hand, Pa.
Brubaker, Owen B.	Bird-in-Hand, Pa.
Brubaker, Carl H.	Columbia, Pa.
Bryson, Park P.	Paradise, Pa.
Bucks, David H.	Leola, Pa.

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Burkholder, Paul E.	Elizabethtown, Pa.
Byers, Harold W.	Lampeter, Pa.
Carbaugh, Lee O.	Arendtsville, Pa.
Carlisle, William R.	New Washington, Pa.
Cassel, George L.	Lancaster, Pa.
Chamberlain, J. Frank	Philadelphia, Pa.
Christian, Harold S.	Gouverneur, N. Y.
* Clark, Walter R.	Richland Center, Pa.
Cochran, J. Frank	Lancaster, Pa.
* Colebaugh, D. Clinton,	Claysburg, Pa.
Constantino, Antonio	Bilbao, Spain.
Constantino, Ricardo	Bilbao, Spain.
* Cox, Harry D.	New York, N. Y.
Craig, William A.	Scotland, Pa.
Crawford, Charles C.	New York, N. Y.
Crawford, John G.	Mifflintown, Pa.
Dailey, C. Earl	Lancaster, Pa.
Daniels, William E.	Akron, Pa.
Davis, Benj. F.	Lancaster, Pa.
Davis, Tunis B.	Port Washington, N. Y.
Deetjen, William L.	Philadelphia, Pa.
Deane, Ross N.	Torresdale, Pa.
Diffenderfer, Paul B.	Lancaster, Pa.
Diller, Herbert E.	Intercourse, Pa.
Diller, Samuel W.	Lancaster, Pa.
Dimm, Raymond W.	Dimmsville, Pa.
Dissinger, Harry S.	Campbelltown, Pa.
Donecker, Paul S.	Lancaster, Pa.
Duttenhofer, Howard F.	Lancaster, Pa.
Edwards, H. Charles	Lancaster, Pa.
Entenza, Felipe S.	Cienfuegos, Cuba.
Enyeart, Charles H.	Saxton, Pa.
Faust, Guy C.	Pottsville, Pa.
Fay, Arthur F.	Port Washington, N. Y.
Felix, Heber D.	Schuylkill Haven, Pa.
Feige, Andrew C.	Lancaster, Pa.
Fenstermacher, Charles W.	Coplay, Pa.
Fillinger, Joseph	Lancaster, Pa.
Fishburn, Harry A.	Penbrook, Pa.

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Foltz, Frederick S.	Lancaster, Pa.
Fos, H. Arthur	Danboro, Pa.
* Frantz, J. Andrew	Lancaster, Pa.
Frauenfelder, Elton A.	Hamburg, Pa.
Fulkerson, Dan	Tyrone, Pa.
Fulton, Harry C.	High Rock, Pa.
Gabel, Percy H.	Lancaster, Pa.
Garrison, Paul R.	Columbia, Pa.
Garvey, Billroth T.	Lancaster, Pa.
Garvey, Farrell J.	Lancaster, Pa.
Geiger, Joseph H.	Quarryville, Pa.
Getz, Rohrer	Lancaster, Pa.
Gillam, Chester B.	Huntingdon, Pa.
Gilliland, Leslie J.	Snow Shoe, Pa.
Goll, George H.	Lancaster, Pa.
† Gonder, Joseph M.	Strasburg, Pa.
Good, Benj. F.	Lancaster, Pa.
Gould, Frank R.	Mt. Carmel, Pa.
Greenley, Elvin B.	Lancaster, Pa.
Greider, Paul S.	Lancaster, Pa.
Griffith, William E.	Imler, Pa.
* Grove, Austin L.	Glen Rock, Pa.
Habecker, John S.	Rohrerstown, Pa.
Hager, Edward T.	Lancaster, Pa.
Hager, William H., Jr.,	Lancaster, Pa.
Hall, George D.	Columbia, Pa.
Hall, Ray B.	Lancaster, Pa.
Harnish, Abram H.	Lancaster, Pa.
Harper, Clyde	Altoona, Pa.
Harrison, Robin	Clarksburg, W. Va.
Hartline, Elmer B.	Saegersville, Pa.
Hartzell, Percy C.	Welty, Pa.
Heine, Ferdinand	Lancaster, Pa.
Heinitsh, John K.	Lancaster, Pa.
Heinitsh, Frederick A.	Lancaster, Pa.
Helm, Hiram P.	Bart, Pa.
Helm, Paul V.	Mechanics Grove, Pa.
* Henneberger, J. Clark	Greencastle, Pa.
Herr, Edward	Shamokin, Pa.

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Hess, Phares B.	Weidmanville, Pa.
* Hess, John J.	Kinzer's, Pa.
Hess, William J.	Quarryville, Pa.
Hess, Lloyd H.	Lancaster, Pa.
Hess, Edgar G.	Lancaster, Pa.
Hibbs, Robert C.	Mifflin, Pa.
Hill, Richard	Exton, Pa.
Hock, Fred. L.	Cressona, Pa.
Hollenbaugh, William H.	Maytown, Pa.
Hollinger, John H.	Hollinger, Pa.
‡ Horning, Robert B.	Metal, Pa.
Hostetter, Harry B.	Lancaster, Pa.
Houser, Carl M.	Pennsylvania Furnace, Pa.
Hunter, Ellis D.	Stoney Creek Mills, Pa.
Imler, Edgar S.	Osterburg, Pa.
Iobst, Llewellyn L.	Freemansburg, Pa.
Isaacs, Claude T.	Dallas, Pa.
* Jaeger, Tobias L.	Dubuque, Ia.
Johns, Raymond S.	Lancaster, Pa.
Johnston, Lowell J.	St. Clairsville, O.
Jones, C. Wade	Oshkosh, Wis.
Jones, Robert D.	Chambersburg, Pa.
Jordan, Merrill L.	Warren, Pa.
Kauffman, Irvin H.	Manheim, Pa.
Keech, Kelvin K.	Oahu, Hawaii.
Keen, E. Arthur	Christiana, Pa.
Kell, Levi M.	Landisburg, Pa.
Kemble, William	Philadelphia, Pa.
Kendig, Herbert K.	York, Pa.
Kirk, Arthur A.	Quarryville, Pa.
Kittelman, Harold G.	Quakertown, Pa.
Kline, Richard H.	Lancaster, Pa.
Kline, Edmund K.	Lancaster, Pa.
‡ Krafft, Carl E.	Glen Rock, Pa.
Kramer, John K. W.	Hyndman, Pa.
Kreider, Harold B.	Witmer, Pa.
Kurtz, William A.	South Hermitage, Pa.
Kutz, R. Edwin	Summit Hill, Pa.
Lawfer, William R.	Allentown, Pa.

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* Lehman, Simon	West Willow, Pa.
Lefever, Wilmer	Reading, Pa.
Levan, John J.	Lancaster, Pa.
Lichty, A. Fay	Elk Lick, Pa.
Littlefield, Herbert	Brantford, Ont.
Loechel, Lloyd O.	Elk Lick, Pa.
Long, Milton E.	Glens Falls, N. Y.
Maclay, Ralph H.	Belleville, Pa.
Maclay, Robert B.	Belleville, Pa.
Marburger, George H.	Ephrata, Pa.
Marcus, Bernhard	Atlantic City, N. J.
Martin, Richard F.	Lancaster, Pa.
Martzall, Albert W.	Junction, Pa.
Masenheimer, William H.	Manchester, Md.
McAllister, Lloyd	West Willow, Pa.
McGuire, Bartley	Lancaster, Pa.
McMullin, Bentley M.	Grand Junction, Colo.
Mearig, George	New Holland, Pa.
Meminger, Cyrus H.	Lancaster, Pa.
Mentzer, Ivan H.	Ephrata, Pa.
Mill, Robert R.	Baltimore, Md.
Moyer, Paul I.	Campbelltown, Pa.
Moyer, Ernest W.	Perkasie, Pa.
Moyer, J. Nevin	Perkasie, Pa.
Mumma, Ellis H.	Penbrook, Pa.
Muth, William E.	Northampton, Pa.
Myer, J. Ellis,	Bridgeville, Del.
Mylin, Donald M.	Leaman Place, Pa.
Mylin, John C.	Willow Street, Pa.
Neff, J. Luther	Gordon, Pa.
Nissley, Rudolph H.	Lancaster, Pa.
Noss, John B.	Lancaster, Pa.
Nutter, Jefferson B.	Georgetown, Ky.
Otthofer, George H.	Lancaster, Pa.
Owens, Robert W.	Tyrone, Pa.
Philips, Clair C.	Minersville, Pa.
Phillips, Oliver	Ebensburg, Pa.
* Phillippi, Charles S.	Confluence, Pa.
Potteiger, Earl	Philadelphia, Pa.

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Price Will C.	Philadelphia, Pa.
Pyfer, John F.	Lancaster, Pa.
Raub, Harry L.	Lancaster, Pa.
Reed, Paul D.	Lancaster, Pa.
Reemsnyder, Charles J.	Ephrata, Pa.
Reese, J. Harold	Lancaster, Pa.
Reid, Roswell S.	Star City, W. Va.
Reinhart, Ralph E.	Quarryville, Pa.
Reist, John L.	Lancaster, Pa.
Roberts, Frank W.	Marysville, Pa.
Robison, Harold K.	Lancaster, Pa.
Rohrer, George H.	Lancaster, Pa.
Root, Ralph R.	Reamstown, Pa.
Rose, Harold M.	Refton, Pa.
Ross, Worth G.	Washington, D. C.
‡ Runkle, John C.	Philadelphia, Pa.
Sallade, Harold E.	Womelsdorf, Pa.
Sampsell, George H.	Penn's Creek, Pa.
Sanderson, Harry	Lancaster, Pa.
Sassaman, Howard L.	Hummelstown, Pa.
Sauber, Charles C.	Lancaster, Pa.
* Saul, Homer B.	Delmont, Pa.
Schaffner, Herbert A.	Hummelstown, Pa.
Schiedt, Richard C. F.	Lancaster, Pa.
Schriver, Paul W.	Lancaster, Pa.
Schutte, Charles E.	Lancaster, Pa.
‡ Seitz, Sherman L.	Glen Rock, Pa.
Shank, Walter L.	Lancaster, Pa.
Shappel, Clarence E.	Hamburg, Pa.
* Shaub, Benj. W.	Lancaster, Pa.
Shriner, Edward G.	Frederick, Md.
Slifer, V. Galen	North Wales, Pa.
Smith, Charles A.	Osterburg, Pa.
Snavely, A. Bowman	Lancaster, Pa.
‡ Snavely, George J.	Cleona, Pa.
Soutter, John	Lancaster, Pa.
Stauffer, Claude R.	Leola, Pa.
Stauffer, Elias K.	Quarryville, Pa.
Stein, Ben	Lancaster, Pa.

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Stewart, Robert Donald	Lancaster, Pa.
Stewart, John W.	Port Washington, N. Y.
Steward, Davis R.	Delta, Pa.
Stillinger, Clyde L.	Mountville, Pa.
Stoler, George W.	Saxton, Pa.
* Straub, Hiram	Minersville, Pa.
* Sykes, Paul J.	Troutville, Pa.
Thatcher, Mark	Richland Center, Pa.
Thomas, Lee C.	Adamstown, Md.
Troll, Conrad	St. Clairsville, O.
* Tussey, Robert Sanford	Water Street, Pa.
Vasquez, Alessandro	Panama.
Wadlinger, F. Raymond	Pottsville, Pa.
* Walp, Robert H.	Richland Center, Pa.
Ward, Paul C.	Pennsylvania Furnace, Pa.
Weaver, Herbert B.	Lancaster, Pa.
Weaver, William W.	Lancaster, Pa.
Weber, David W.	New Holland, Pa.
Weiler, Ralph S.	Terre Hill, Pa.
Wimer, John W.	Quarryville, Pa.
Witmer, John A.	Sunbury, Pa.
Worrest, Warren W.	Lancaster, Pa.
Worthington, Earl B.	Dry Run, Pa.
Yecker, Raymond P.	Lancaster, Pa.
Young, Ernest	Paterson, N. J.
Ziemer, Harry S.	Adamstown, Pa.
Zimmerman, Martin D.	Narvon, Pa.

Total enrollment 256.

* Entered Franklin and Marshall College.
† Entered Lehigh University.
‡ Entered Pennsylvania State College.
§ Entered University of Pennsylvania.
‖ Entered Pennsylvania College.
¶ Entered Jefferson Medical College.

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SUMMARY

Graduate Students	18
Seniors	38
Juniors	51
Sophomores	69
Freshmen	39
Specials	26
	241
Academy	256
Total	497
Deduct names given twice	19
Total	478

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Franklin and Marshall College

Lancaster, Pennsylvania

The Catalogue

1910-1911

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CATALOGUE

OF

Franklin and Marshall College

LANCASTER, PENNSYLVANIA

1910-1911

PRESS OF
THE INTELLIGENCER
LANCASTER, PA.
1911

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COLLEGE CALENDAR

1910

Examinations for Entrance ..... September 5–7
First semester begins at 10 a. m. ..... September 8
Thanksgiving Day recess ..... November 24–26
Christmas vacation begins at 12:20 p. m. .. December 16

1911

College exercises begin at 9 a. m. ..... January 3
Semester examinations ..... January 23–27
Second semester begins ..... January 30
Washington's Birthday—Holiday ..... February 22
Easter recess ..... April 13–17
Senior examinations ..... May 1–5
Anniversary of Goethean Literary Society ..... May 5
Inter-scholastic Track Meet at 1:30 p. m. ..... May 6
Senior vacation begins ..... May 8
Anniversary of Diagnothian Literary Society .. May 12
Ascension Day—Holiday ..... May 25
Senior prize debate ..... June 3
Baccalaureate Sunday ..... June 4
Junior Oratorical Contest at 7:30 p. m. ..... June 5
Advisory Council of Alumni at 10 a. m. ..... June 6
Meeting of the Board of Trustees at 2 p. m. ..... June 6
Class Day exercises at 3 p. m. ..... June 6
Fraternity and Class Reunions ..... June 6
Literary Society reunions at 10 a. m. ..... June 7
Meeting of the Alumni Association at 11:30 a. m. June 7

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COLLEGE CALENDAR

1911

Alumni Luncheon, Campus, at 12:30 p. m.....June 7
Annual base-ball game, Athletic Field, at 3 p. m. June 7
Meeting of the Phi Beta Kappa Fraternity at 6:45 p. m.....June 7
Phi Beta Kappa Oration at 7:30 p. m.....June 7
Alumni Banquet in Academy Building at 9 p. m. June 7
Seventy-fifth Annual Commencement at 9 a. m. June 8
Summer vacation of thirteen weeks.
Examinations for entrance.....September 11–12
Registration.....September 13
First semester begins at 10 a. m.....September 14
Thanksgiving Day recess.....Nov. 30–Dec. 2
Christmas vacation begins at 12:20 p. m..December 22

1912

College exercises begin at 9 a. m.....January 9
Semester examinations.....January 22-26
Second semester begins.....January 29
Washington's Birthday—Holiday.....February 22
Easter recess.....April 4–8
Seventy-sixth Annual Commencement.....June 13

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BOARD OF TRUSTEES

Elected by the Board

Term Expires.

H. L. RAUB.....1911
Lancaster, Pa.

JAMES SHAND.....1912
Lancaster, Pa.

WALTER M. FRANKLIN, ESQ.....1914
Lancaster, Pa.

J. W. B. BAUSMAN, ESQ.....1915
Lancaster, Pa.

WILLIAM H. HAGER.....1916
Lancaster, Pa.

MILTON F. BARINGER.....1916
Wyncote, Pa.

A. C. KEPLER.....1917
Lancaster, Pa.

HON. W. U. HENSEL, LL.D.....1919
Lancaster, Pa.

HENRY S. WILLIAMSON.....1920
Lancaster, Pa.

Elected by the Eastern Synod.

GEORGE F. BAER, LL.D.....1912
Reading, Pa.

JARED HARPER.....1912
Bellefonte, Pa.

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REV. N. C. SCHAEFFER, D.D., LL.D.....1913
Lancaster, Pa.

REV. JACOB B. KERSCHNER.....1913
Freeland, Pa.

SAMUEL P. HEILMAN, M.D.....1914
Heilmandale, Pa.

B. F. FACKENTHAL, JR.....1915
Riegelsville, Pa.

JOHN D. SKILES.....1915
Lancaster, Pa.

REV. J. W. SANTEE, D.D.....1917
Philadelphia, Pa.

REV. F. C. SEITZ.....1918
Allentown, Pa.

L. B. KEIPER.....1918
Lancaster, Pa.

JOHN W. BICKEL, ESQ.....1918
Norristown, Pa.

C. C. LEADER.....1919
Shamokin, Pa.

Elected by the Synod of the Potomac

J. H. SHOOK.....1911
Greencastle, Pa.

REV. W. C. SCHAEFFER, D.D.....1913
Lancaster, Pa.

WILLIAM J. ZACHARIAS, ESQ.....1917
Chambersburg, Pa.

J. W. WETZEL, ESQ.....1919
Carlisle, Pa.

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REV. A. S. WEBER, D.D.....1920
Baltimore, Md.

GEORGE D. ROBB.....1920
Altoona, Pa.

Elected by the Pittsburg Synod.

JOHN E. KUNKLE, ESQ.....1911
Greensburg, Pa.

PAUL C. WOLFF 1914
Pittsburgh, Pa.

HON. JOHN M. JAMISON.....1916
Greensburg, Pa.

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OFFICERS AND COMMITTEES OF THE BOARD OF TRUSTEES

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Vice-Presidents

HON. W. U. HENSEL, LL.D.
JOHN D. SKILES

Recording Secretary

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Corresponding Secretary

GEORGE F. MULL, A.M., LITT.D.

Treasurer

J. W. B. BAUSMAN, ESQ.

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STANDING COMMITTEES

Finance

JOHN D. SKILES,
W. U. HENSEL,
B. F. FACKENTHAL, JR.,
JAMES SHAND,
H. S. WILLIAMSON,
J. W. B. BAUSMAN.

Instruction

WALTER M. FRANKLIN,
W. C. SCHAEFFER,
A. S. WEBER,
J. W. WETZEL,
J. B. KERSCHNER.

Library

N. C. SCHAEFFER,
J. W. SANTEE,
H. L. RAUB,
F. C. SEITZ,
H. S. WILLIAMSON,
WALTER M. FRANKLIN,
W. U. HENSEL.

Grounds and Buildings

W. H. HAGER,
W. U. HENSEL,
A. C. KEPLER,
JOHN D. SKILES,
H. S. WILLIAMSON,
W. M. FRANKLIN,
S. P. HEILMAN.

Discipline and Degrees

W. U. HENSEL,
N. C. SCHAEFFER,
JARED HARPER,
JOHN W. WETZEL,
J. W. B. BAUSMAN.

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Permanent Endowment

GEORGE F. BAER, H. S. WILLIAMSON,
W. J. ZACHARIAS, JOHN E. KUNKLE,
S. P. HEILMAN, B. F. FACKENTHAL, JR.,
MILTON F. BARINGER.

Wilhelm Estate

PAUL C. WOLFF, C. C. LEADER,
H. L. RAUB, JOHN M. JAMISON,
JARED HARPER.

Observatory

A. S. WEBER, H. L. RAUB,
B. F. FACKENTHAL, JR., GEO. D. ROBB.

Academy

JAMES SHAND, W. H. HAGER,
H. S. WILLIAMSON, W. M. FRANKLIN,
A. C. KEPLER.

Laboratory and Museum

W. C. SCHAEFFER, JOHN D. SKILES,
L. B. KEIPER, JAMES SHAND,
J. H. SHOOK, JOHN W. BICKEL.

Gymnasium and Athletics.

H. S. WILLIAMSON, JAMES SHAND,
W. H. HAGER, H. L. RAUB,
WALTER M. FRANKLIN.

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ADVISORY COUNCIL OF ALUMNI

The following Alumni have been elected as members of the Advisory Council of Alumni, authorized by the Board of Trustees and by the Alumni Association of Franklin and Marshall College:

S. H. RANCK, '92, Grand Rapids, Mich.
W. N. APPEL, ESQ., '80, Lancaster, Pa.
W. H. KELLER, ESQ., '91, Lancaster, Pa.
J. B. KREMER, '62, Montclair, N. J.
HON. G. L. KUNKLE, '76, Harrisburg, Pa.
REV. C. J. MUSSER, D.D., '78, Philadelphia, Pa.
T. M. BALLIET, PH.D., '76, New York, N. Y.
S. H. GUILFORD, D.D.S., '61, Philadelphia, Pa.
REV. L. KRYDER EVANS, D.D., '64, Pottstown, Pa.

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FACULTY

REV. HENRY HARBAUGH APPLE, A.M., D.D.,
President of the College; Upon the Geo. F. Baer Foundation.
441 College Avenue.

REV. JOHN SUMMERS STAHR, Ph.D., D.D., LL.D.,
J. W. Nevin Professor of Mental and Moral Science, Æsthetics and the Philosophy of History
445 West James Street.

JEFFERSON E. KERSHNER, PH.D.,
Professor of Mathematics and Physics
445 West Chestnut Street.

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Professor of the Latin Language and Literature
431 West James Street.

REV. RICHARD CONRAD SCHIEDT, A.M., PH.D., SC.D.,
The B. F. Fackenthal, Jr., Professorship of Natural Science (Biology and Geology.)
1043 Wheatland Avenue.

REV. C. ERNEST WAGNER, A.M.,*
Professor of the English Language and Literature
134 North Lime Street.

REV. ANSELM VINET HIESTER, A.M.,
Professor of Political and Social Science
320 Race Avenue.

CLARENCE NEVIN HELLER, A.M.,
Professor of Ancient Languages
415 North Charlotte Street.

HERBERT HUEBENER BECK, A.C.,
Associate Professor of Chemistry and Mineralogy
Y. M. C. A. Building

*Resigned, June, 1911.

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CHARLES PATTERSON STAHR, A.M., M.D.,
Lecturer on Anatomy
17 East Walnut Street.

REV. A. THOMAS G. APPLE, A.M.,
Professor of Mathematics and Astronomy
237 Lancaster Avenue.

REV. H. M. J. KLEIN, PH.D.,
Audenried Professor of History and Archæology
548 West James Street.

REV. VICTOR WILLIAM DIPPELL, PH.D.,
Professor of Modern Languages
563 West Walnut Street.

JOHN NEVIN SCHAEFFER, B.LITT., OXON,
Professor of Classics
527 West James Street.

A. LEE SHULENBERGER, A.M.,
Secretary to the President and Acting Librarian.
249 College Avenue.

M. W. RAUB, M.D.,
Curator of the Museum
339 N. West End Avenue.

D. C. MCLAUGHLIN,
Director of the Gymnasium
33 East Orange Street.

FRANK MOUNT PLEASANT,
Instructor in Athletics

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OFFICERS AND COMMITTEES OF THE FACULTY

President

HENRY HARBAUGH APPLE, A.M., D.D.

Secretary

GEORGE FULMER MULL, A.M., LITT.D.

Treasurer

CLARENCE NEVIN HELLER, A.M.

Registrar

ANSELM VINET HIESTER, A.M.

On Admission

PROFESSORS MULL, APPLE AND KLEIN

On Registration and Electives

PROFESSORS HIESTER, SCHIEDT AND MULL

On Athletics

PROFESSORS BECK, MULL AND SCHAEFFER

On Non-Athletic Organizations

PROFESSORS SCHIEDT, HELLER AND DIPPELL

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FRANKLIN AND MARSHALL COLLEGE

History and Description

Franklin and Marshall College was formed by the union of two older educational institutions, which in their independent existence labored for common ideals and aims and ministered to a common constituency. Franklin College had been maintained in Lancaster, Pa., for forty-five years and Marshall College had thrived for seventeen years in Mercersburg, Pa., when by an act of the Legislature of Pennsylvania they were merged and consolidated under the name of Franklin and Marshall College to be located in the city of Lancaster, or its immediate vicinity. The effort to enlarge their sphere of usefulness, by joining their means and labors under one organization, enabled them to confer a more extensive benefit upon the citizens of this state, in the promotion of liberal and scientific learning. The wisdom of that act is justified in the rich fruitfulness and illustrious history of Franklin and Marshall College as an aggressive and vigorous institution for the promotion of higher education.

Franklin College

The educational history of this institution runs back to the trying times of the latter part of the eighteenth century. The charter was granted March 10, 1787. When the infant republic was being tested in its right to live and its ability to grow, Franklin College was founded in the historic borough of Lancaster. Those

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who conceived the purpose of this third oldest college in Pennsylvania, and brought her into being were men prominent in the establishment of the nation and concerned with the development of her people. In the necessity of improving the younger generation, that there might be assured a strong American nation, it was especially needful to minister to the educational needs of the large and thrifty but greatly neglected German population of the state. To this end a petition was made to the Legislature of Pennsylvania to establish a German College and Charity School in Lancaster. "From a conviction of the necessity of diffusing knowledge through every part of the state, in order to preserve our present republican system of government, as well as to promote those improvements in the arts and sciences which alone render nations respectable, great and happy," it was asked, that an institution should be established, "to promote an accurate knowledge of the German and English languages, also of the learned languages, of mathematics, morals, and natural philosophy, divinity, and all such other branches of literature as will tend to make good men and useful citizens." Out of "profound respect for the character of his Excellency, the President of the State, her most distinguished citizen" and one of its projectors and liberal patrons, the school was called Franklin College. Among the first trustees were four signers of the Declaration of Independence, seven officers of the War of the Revolution, three who became governors of Pennsylvania, two distinguished jurists, and two who became senators of the United States. Of the ministers, seven were Reformed, seven Lutheran, one Moravian and one Roman Catholic.

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The specific aim of the college was further emphasized in the preamble of the act of incorporation. The grant was made because "The citizens of this state, of German birth or extraction, have eminently contributed by their industry, economy and public virtues to raise the state to its present happiness and prosperity"—and because of "a desire to increase and perpetuate the blessings derived to them from the possession of property and a free government"—"to train up a succession of youth to fully understand, zealously practice and strenuously defend the republican form of government." The scope of her sphere was thus national in its conception.

Founded in the interest of Germans, it was never intended to be, as it never became, exclusively a German institution, but it served to foster an appreciation of German life and literature and formed an environment in which the sons of Germans might be educated without being alienated from the faith of their fathers. In emphasizing the English course and teaching "all those branches of literature which are usually taught in the colleges of Europe and America" it was a valuable agency to mediate German thought and mould German life into American manhood. Its purpose to give higher learning and liberal culture to the people of the interior of the state was always held firmly in view and in the face of many difficulties in its environment, and the lack of adequate financial support it continued a blessed service during the time of its independent existence. Among the first trustees were the Hons. Thomas Mifflin, Thomas McKean, Robert Morris, George Clymer, Benjamin Rush and the Rev. Drs. J. H. C. Helmuth, Casper Weiberg, Henry E. Muhlenberg and William Hendel.

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Its effective worth may be estimated from the statement of Benjamin Rush, who said of its faculty, "A cluster of more learned or better qualified masters, I believe, I have never met in any university." It included Dr. F. A. Muhlenberg, the botanist, Dr. Frederick Valentine Melsheimer, "the father of American entomology," and James Ross, author of a Latin and a Greek Grammar, and "one of the foremost classical scholars of America."

MARSHALL COLLEGE

A classical institution aiming to give an adequate training to those preparing for the ministry of the German Reformed Church was proposed prior to the year 1829 and in 1831 such a school was started at York, Pa. It was firmly established in 1833 when Dr. F. A. Rauch was placed in charge. In 1835 the name was changed to the "High School of the Reformed Church" and in the fall of the same year was removed to Mercersburg, the little village in the mountains, destined to become famous as the seat of "Mercersburg Theology." On the thirty-first day of March, 1836, the Legislature of Pennsylvania enacted "that the high school of the German Reformed Church, located at Mercersburg, in the county of Franklin, be and hereby is erected into a college, for the education of youth in the learned languages, the arts, sciences and useful literature." It was named after the eminent Chief Justice of the United States, "in testimony of respect for the exalted character, great worth, and high mental attainments of the late John Marshall." While owing its origin to a zeal on the part of a religious denomination, it soon broadened its sphere and enlarged its course to meet the needs and

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serve the wants of those seeking a liberal education to prepare for the professions of law and medicine or enter a business career. It had a choice coterie of professors, men of large vision and distinguished scholarship. Here it was that Dr. Frederick Augustus Rauch, fresh from the German University and in the full vigor of young manhood, produced his pioneer work on psychology and blended German philosophy with American thought. Here the giant theologian, Dr. John Williamson Nevin, taught and wrote, and by the vigor and richness of his works claimed attention from scholars of Europe as well as America. Associated with them were Dr. Philip Schaff, one of the foremost church historians of this country; Dr. Henry Harbaugh, the versatile poet preacher; the brilliant Dr. E. E. Higbee, who later filled a most successful administration as Superintendent of Public Schools of Pennsylvania; and the distinguished botanist and voluminous writer, Dr. Thomas C. Porter, the learned scientist, Dr. Traill Green, with Dr. William Marvel Nevin in the chair of English Literature. This faculty, worthy of any university, laid broad and deep the foundation of a true college. Their liberal educational views, profound Christian scholarship and high culture not only moulded students in personal contact but gave inspiration and enthusiasm to education generally. Marshall College is the main source of the present institution, and its history presents ideals which in their simple dignity are worthy of our constant imitation.

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FRANKLIN AND MARSHALL COLLEGE

Neither Franklin College nor Marshall College was able to accomplish in full measure the purpose for which it had been established, and both were looking for means to enlarge the scope of their work. As the result of mutual overtures they were united under a new charter, and Marshall College was removed to Lancaster in the spring of 1853 to carry the union into effect. The formal opening took place on June 7, 1853. The charter granted on April 19, 1850, empowers the College to grant "such degrees in the arts and sciences or other useful learning as have been usually granted in other colleges or universities in America or Europe."

Under the successful guidance of efficient presidents the College grew and prospered and furnished a remarkable history which bestows upon this age a rich and glorious heritage. In successive years her faculty and students increased, her campus was enlarged and her course strengthened and enriched. The proper course of historical development and the solidarity of her educational system has been preserved. The broad, liberal spirit which characterized Franklin College and the profound philosophy and Christian culture peculiar to Marshall College are united in the facilities and purposes of her thorough educational system in preparation for professional and technical training, as for all the duties of life.

The College bases its claim for patronage and support on the advantages which it offers for obtaining a thorough liberal education. The curriculum is adapted to afford training for culture and discipline and aims at

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thorough instruction, harmonious development and the formation of sound character. The studies are so arranged that the students, in their entire course, come in contact with the regular professors—men of ability, experience and enthusiasm in their respective departments—and receive in this way not only the highest measure of personal attention, but also the inspiration which the genuine scholar and teacher, by personal influence, always communicates.

The College is under the ownership and general control of a board of trustees, thirty in number, to be held in trust for the Eastern Synod, the Pittsburg Synod, and the Synod of the Potomac of the Reformed Church in the United States. The Eastern Synod elects twelve, the Pittsburg Synod three and the Synod of the Potomac six members of the board for a period of ten years. The other nine are elected by the board, which also has power to fill all vacancies. While the College is under the general care of the Reformed Church in the United States, it imposes no sectarian requirements or restraint upon professors or students. The instruction and government of the students are committed to the faculty, whose members are elected by the board of trustees. Matters relating to athletic games and intercollegiate contests are determined by the joint action of a committee of the faculty and representatives of the faculty, alumni and student body, constituting the Athletic Association.

LOCATION

The College is located on elevated ground on the northwest side of Lancaster, a city of about 50,000 inhabitants, on the main line of the Pennsylvania rail-

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road, between Philadelphia and Harrisburg. Lancaster is the county seat of "the garden spot of the United States" and the center of a network of electric railways. It has been a college town for nearly a hundred and twenty-five years and has an atmosphere of culture and scholarship and a spirit of friendship and sympathy which is valuable to students of an institution of learning, and favorable to the development of strong, manly character.

CAMPUS

The area of college grounds is fifty-four acres, on which are conveniently grouped ten buildings. The older and original campus possesses large shade trees, with walks and driveways. At the northern end is an enclosed Athletic Field properly arranged for foot-ball, base-ball and track events. The tennis courts are outside of this enclosure. West of the College grounds is the New Buchanan Park of Lancaster City, and on the east, separated by College Avenue, are the buildings of the Theological Seminary of the Reformed Church in the United States.

PRESIDENTS

The following have served as Presidents of Franklin and Marshall College:

Emanuel Vogel Gerhart, D.D., LL.D., 1855–66.
John Williamson Nevin, D.D., LL.D., 1866–76
William Marvel Nevin, A.M., Pro. Tem., 1876–77.
Thomas Gilmore Apple, Ph.D., DD.., LL.D., 1877–89.
John Summers Stahr, Ph.D., D.D., LL.D., 1889–1909.
Henry Harbaugh Apple, A.M., D.D., 1909–

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BUILDINGS AND EQUIPMENT

All the buildings are in first class condition and adapted for their particular uses. They are heated with steam and lighted by electricity, except the Library where gas furnishes a softer light for reading.

Recitation Hall.—This main building was erected on the campus in 1855. It is substantially built, three stories in height, with a graceful and conspicuous tower, surmounted by four small steeples. This is the center of college sentiment and tradition. It contains seven recitation rooms, the room of the Young Men's Christian Association, and in the rear the large college chapel.

Society Halls.— On either side of the recitation hall are two halls owned and used by the Diagnothian and Goethean literary societies. They were erected in 1856–7 and are both alike in arrangement. On the first floor each contains a library and social room, on the second floor a large and beautiful assembly room where the weekly meetings are held. For a short time during the Civil War they were used as hospitals. The two libraries contain over 18,000 well selected books. With one exception these are conceded to be the most valuable college literary society property in the world.

Gymnasium.—The Gymnasium was built in 1891 through the generosity of a number of friends of the college and furnished by the efforts of the undergraduates. It has an ample exercise hall, supplied with apparatus suited to the systematic drill n gymnastics for which it was designed. It is equipped with the appliances for heavy work, such as horizontal and parallel bars, traveling rings, ladders, horse and striking

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bag. In the basement is the dressing room, supplied with lockers, and provided with facilities for shower baths. It is additionally used for evening social functions in which the students are interested.

Library.—The Watts de Peyster Library was erected in 1897–98, at a cost of about $36,000, the gift of John Watts de Peyster, LL.D., of Tivoli, New York. It contains about 30,000 volumes, which together with the libraries of the literary societies, make about 48,000 volumes accessible for the use of the students. It is the most beautiful building on the campus, a brick structure with stone trimmings, and can accommodate 75,000 volumes. The stack room is provided with metallic shelving and all the conveniences usual in modern libraries. On the second floor is a reading room where are kept on file all the best secular and religious papers and magazines of this country, as well as the leading English monthly and quarterly reviews. The following alcoves are endowed: American Literature, German Language and Literature, Fine Arts, Mental Science, Political Economy, Miscellaneous Books. The Library is a depository for government publications.

The Library and Reading Room are open every day in the week, except Sunday, from 2 to 5 P. M., and from 7 to 10 P. M. All persons are free to consult the books and periodicals on the shelves and tables during these hours: but books, or periodicals, can be taken out for use in private only during afternoon hours, when the Librarian, or his assistant, is in the Library, and when so taken, they may be kept for ten days, with the privilege of renewing them at the end of that period for another ten days.

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Set into the wall, at the entrance, is a tablet of conglomerate marble from General de Peyster's home on the Hudson, bearing the following inscription: "This library is erected as a memorial of John Watts, *vir æquanimitatis*, and of Frederick de Peyster, *vir auctoritatis*, by a grandson and son, who, bearing both names, seeks to continue in their honor the good they did and taught him." In the waiting room are oil paintings of the former presidents of the College.

In front of the building is a statue of Abraham de Peyster, of heroic size, first erected in 1895, in Bowling Green, New York, opposite General de Peyster's ancestral home. It was presented to the college and placed on the campus when the library building was erected. Abraham de Peyster (1651–1728) was prominent in our colonial history and was the great-great-great-grandfather of General de Peyster, who erected the statue and the library building.

Observatory.—Mrs. James M. Hood, of Frederick, Md., presented the College with the Daniel Scholl Observatory in 1884, as a memorial to her father, Daniel Scholl. She also provided the equipment and gave an endowment of $10,000 for its maintenance. It contains an 11-inch Clark-Repsold equatorial with micrometer, a 3-inch transit instrument by Ertel & Son, a Fauth chronograph, a Seth Thomas precision clock and a chronometer, together with a set of meteorological instruments, a universal instrument, with 10-inch circles, reading to single seconds, a students' telescope with 4-inch objective by Clark, equatorially mounted, with finding circles and driving clock; a sextant and other instruments available for studying problems of time, longitude, latitude and azimuth.

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It is thus well equipped with all instruments necessary to gain a practical knowledge of astronomy, whether as an independent science, or in its bearings upon geodesy, navigation and surveying.

Through the generosity of Mr. M. T. Garvin, of Lancaster, Pa., the Observatory is also equipped with instruments by which the students are afforded opportunities for field work in engineering and surveying.

Science Building.—The Science Building is one of the finest of its kind in any college or university. It was built and equipped in 1900–01, at a total cost of $75,000. It is a three-story structure, of light colored brick; the laboratories are separated by fire-proof doors. It contains the Milton S. Hershey Chemical Laboratories, the B. Wolff, Jr., Biological Laboratories, the Physical Laboratories, the Charles F. Rengier Geological Equipment, the George F. Baer Laboratory of Applied Electricity, a large museum, lecture rooms for the various departments, professors' studies, a reception room and the President's and Secretary's Offices.

The apparatus in the Physical Laboratory is used to make demonstrations in the general course of physics. The students make measurements upon physical quantities so that the hand and eye are trained and the mind accustomed to habits of accuracy in carefully conducted investigation of the laws of physics.

Among the instruments in the Laboratory of Applied Electricity are two 5-K. W. rotary converters, one variable speed alternator, a Prony break, a magnetic tester, a modified Fessenden contact maker, and voltmeters, wattmeters and ammeters, for direct and alternating currents.

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The complete outfit of the thoroughly equipped chemical department is the gift of Mr. Milton S. Hershey, of Hershey, Pa. It includes the General Analytical and Private Laboratories with Assay and Balance Rooms.

The family of the late B. Wolff, Jr., of Pittsburg, Pa., provided the department of Biology in memory of Mr. Wolff. It includes the full equipment of the General Biological Laboratory with all the necessary microscopes and other instruments for each student as well as special laboratories for physiology, histology and embryology. These laboratories, together with the anatomical room, furnish unusual facilities for students who are preparing for the study of medicine.

The geological equipment consists of a complete set of Sholer-Davis models and photographs illustrating structural and dynamical geology, relief maps representing in plaster of paris the physiographical and geological formation of the United States, a well selected collection of fossils for the thorough study of historical geology and of microscopic appliances. With the *Fahnestock* and *Heisler* collections of minerals, these will afford exceptional opportunity for the study of geology.

The herbarium recently rearranged and placed in new cases includes the valuable collection of plants by the late A. P. Garber, M. D. This collection of phænogams and vascular cryptogams is accessible for reference and botanical work.

By an arrangement effected between the Linnæan Scientific and Historical Society of Lancaster, and the Trustees of Franklin and Marshall College, the Linnæan Society has removed its Museum and Cabinet to the College Building. In consequence of this removal, the

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College has the benefit and use of a very valuable collection of specimens in the different departments of Natural Science. It includes:

1. A complete skeleton of the *Dionoris giganteus*, of New Zealand, presented by Mr. J. M. Mays, of Philadelphia.

2. The collection of Coleoptera, made by the late Professor S. S. Rathvon, of Lancaster, presented to the College by Dr. Henry Bobb, in memory of his son, Eugene H. Bobb, A. M.

3. The extensive collection of terrestrial shells made by Rev. Dr. A. B. Kendig, of Brookline, Mass., purchased and presented to the College by Miss E. E. Smith, of Lancaster, Pa., to be called the A. B. Kendig collection.

4. The valuable ornithological collection of Dr. M. W. Raub, consisting of excellent mounted specimens of birds, including nearly all the birds of Pennsylvania.

5. Fine mounted specimens of the moose, deer heads, etc., by Mr. A. C. Kepler and Dr. S. T. Davis.

6. A valuable collection of Indian implements and relics, presented by the Rev. Ellis N. Kremer, D. D.

7. A large number of Lepidoptera and Coleoptera, presented by Dr. M. W. Raub.

8. A valuable collection of eggs of birds native to Lancaster county, by Prof. H. H. Beck.

9. The Fahnestock and Heisler collections of minerals have been carefully classified and arranged by Prof. Beck, and a large number of new cases for the different sections of the museum have been put in place so as to make this department of great value in the service of scientific study.

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Academy Buildings.—The old Academy building, erected in 1872–73, has been lately remodeled and is used as an Annex for the Preparatory School. The new Academy building was completed in 1908 at a cost of nearly $115,000. It is 215 feet long, has two wings, 40x75 feet and a chapel seating 350 boys.

Endowment Funds.—A number of very liberal contributions were recently made to the endowment fund of the college. Mr. Geo. F. Baer gave $50,000 to endow the Presidency; Mr. B. F. Fackenthal, Jr., $40,000 to the Professorship of Natural Science (Biology and Geology); Mr. Benjamin Riegel, $5,000, and Mr. Israel Shriner, $7,500. An effort is being made to secure an endowment fund sufficient to maintain the college in its best efficiency.

GENERAL INFORMATION.

RELIGIOUS OBSERVANCES

The students are confronted with the claims of Christianity in its most concrete and living form. A large proportion of the students are communicant members of the Church, and a Christian spirit underlies and animates the instruction in the different departments.

Church Services.—There is a regularly organized Christian congregation in the institution (St. Stephen's Reformed Church), the members of which are the students, the professors and their families, together with some families in the vicinity not directly connected with the College. The clerical members of the faculties serve as pastors, while the other officers are selected from the

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members of the congregation. A regular service is held in the College Chapel Sunday morning at 10:30 o'clock during the college year and every Wednesday afternoon in Lent, and the Sacrament of the Lord's Supper is observed four times a year.

All students are required to attend the Sunday service except the sons of parents who reside in Lancaster, or who belong to denominations other than that of the Reformed Church in the United States. To such persons permission is given to attend churches of their choice at the *special or written request of their parents or guardians, renewed each year.*

Morning Prayers.—All students are required to attend a service each morning of the week, except Saturday, in the College Chapel at nine o'clock, conducted by the President.

A prayer service is held under the auspices of the Young Men's Christian Association each Sunday morning before the church service.

COLLEGE ORGANIZATIONS

Young Men's Christian Association.—The College has a flourishing Young Men's Christian Association which is devoted to the sustaining and extension of religious life among the students. Meetings are held each Sunday morning before the church services when an appropriate address is delivered by a minister or Christian layman of the College or city, and classes are formed for the study of missions. The association seeks to be of practical benefit to the development of Christian character and to render service to the students. It publishes at the beginning of each college year a Students'

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Hand Book, containing a map of Lancaster and useful information concerning the work and activities of the College.

Literary Societies.—Two literary societies, Diagnothian and Goethean, are maintained by the students, who own their society halls, which are beautifully furnished. Each society meets every Friday evening of the collegiate year. Membership is not compulsory but is desired and encouraged by the faculty. These societies have had a flourishing existence for seventy-five years and are of great value for the intellectual development of the student. They maintain and publish the *College Student* as their literary organ.

Society membership is one of the qualifications for those who compete for various prizes offered by the College, as well as for admission to the Phi Beta Kappa graduate fraternity.

The Thomas C. Porter Scientific Society meets fortnightly and affords opportunity for the cultivation of interest and research in scientific studies. Several members of the faculty direct its operations.

Nevin Club.—This organization is named after the great theologian, Dr. John Williamson Nevin, a former president of Franklin and Marshall College, and is composed of students who intend to study for the ministry. It affords opportunity for association of those having a common aim in college work and is a constant appeal to all students for recognition of the claims of the service of the Christian ministry.

Fraternities.—Four national Greek Letter Fraternities have chapters and live in their own houses. These organizations work for the best interests of the College and take a prominent part in all its activities.

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Phi Beta Kappa.—The college has a chapter in the Phi Beta Kappa fraternity, to whose membership the honor men of each graduating class are elected. Under its auspices each commencement week an address is delivered by some distinguished scholar.

Social Clubs.—There are a number of local boarding clubs of a social and fraternal nature.

Musical Clubs.—The Glee and Mandolin Clubs render concerts at various places during the winter and spring months.

Dramatic Club.—The Green Room Club presents a play each year in Fulton Opera House in Lancaster. All students are eligible to membership. Selection is made by trial.

Chess Club.—This club has recently been organized and as yet has confined its work to contests among its own members.

Press Club.—The object of this club is to afford actual work in correspondence with daily papers in the state.

ATHLETICS

Ample facilities are afforded for athletic purposes, and all proper encouragement is given for the maintenance of athletic sports. Athletic matters are in the hands of the Athletic Association, to which all students belong. The Advisory Board appointed each year has supervision of all athletics. The college is a member of "The National Athletic Association of the United States." A graded course of physical training, under a competent instructor, is required of all students. A thorough physical examination is given to all students

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and care is given to those who participate in athletic contests. An Inter-Scholastic Track Meet is held annually on Williamson Field.

PUBLICATIONS

The College Student, founded in 1879, is published monthly during the college year under the auspices of the Diagnothian and Goethean Literary Societies. It is devoted to the development of literary activity among the students. A prize is offered each year to the student who contributes the best original piece of fiction.

The F. and M. Weekly reports the news of college work and life and aims to mould proper college spirit.

The Oriflamme is the college annual published by the Junior Class. It is illustrated and intended to present a summary of student life during the current scholastic year.

The College Calendar is issued by the Sophomore Class.

The Nevonian is an annual published by the Senior Class containing the program and addresses of Class-Day.

The *Obituary Record* contains sketches of all alumni who died during the year and is printed annually by the Alumni Association.

The *Students' Hand Book* contains information especially valuable to new students. It is compiled by the Young Men's Christian Association.

The *Catalogue* is issued annually and gives information about the College as a whole and the register of students.

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ALUMNI ASSOCIATIONS

The Alumni of the College have an association, the object of which is to keep alive the sentiment of affection for their Alma Mater, and to unite the graduates of successive years by a common tie of fellowship. Its meetings are held annually during commencement week. Various district alumni associations maintain organization by holding at least one meeting each year and tend to keep up and give practical shape to the interest felt by the alumni in the well being of the College.

DEGREES

The College confers the degrees of Bachelor of Arts and Bachelor of Philosophy upon graduation on those who satisfactorily complete the full courses of study as outlined in the catalogue.

ADVANCED DEGREES

The degree of Master of Arts is conferred upon those who have received the degree of Bachelor of Arts from a reputable college and who have satisfactorily completed a prescribed course of study according to the general regulations governing graduate study. The degrees of Master of Philosophy and Master of Science are similarly conferred upon the holders of the corresponding bachelor's degrees. These graduate courses may be pursued either in residence or *in absentia* subject to the regulation that scientific courses can be pursued in *absentia* only where the student has access to laboratory or observatory.

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Further particulars may be obtained by application to Prof. A. V. Hiester, Registrar of Graduate Courses.

COLLEGIATE YEAR

The collegiate year consists of two semesters. The first begins thirteen weeks after the Annual Commencement, and continues until the last week in January, including the Christmas recess of two weeks; the second begins immediately after the close of the first and continues until Commencement.

REPORTS

At the end of each semester the grade of each student in each course taken by him is recorded by the secretary. A report of his standing is then transmitted to his parent or guardian.

EXPENSES

Each student is charged a contingent fee of eighty dollars. This amount includes fees for Library and Reading Room, Laboratory, Gymnasium and Hospital. It is payable in instalments, as follows: five dollars on registration, forty dollars for the first semester and thirty-five for the second, within ten days from the beginning of each.

An additional fee of one dollar is charged to those who fail to register at the time specified in September.

Any student failing to make payment within the required time, unless specifically excused, will suffer the loss of college privileges, and notice of such delinquency will be sent to parents or guardians. A graduation fee of five dollars is charged all students taking the bachelor's degree.

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At the beginning of the year students are required to deposit fifty cents for a locker key in the gymnasium, one dollar for a locker key in the laboratories, and sums varying from five to fifteen dollars to cover the expense of breakage in the laboratories or to pay for expensive material used in their work. These sums, or the unexpended balances, are returned at the end of the year.

The students' personal expenses are determined largely by his habits and tastes, and are limited by his power of self control. Board and room are obtained in clubs at an average cost of $3.50 a week. In private families it varies from $4.00 to $5.00 a week.

HOSPITAL ACCOMMODATIONS

Arrangements have been made with the Lancaster General Hospital, whereby students from a distance receive free medical treatment by members of the Hospital Staff. In case of serious illness, the student is removed to the Hospital, where he receives the attention of a skilled physician and is cared for by a trained nurse, without charge.

ANNUAL PRIZES

A gold medal is awarded to the member of the Senior Class who passes the most satisfactory examination in the German language. This prize has been permanently endowed by R. K. Buehrle, Ph.D., Superintendent of Public Schools of Lancaster City.

A gold medal is given to the member of the Junior Class who is successful in competition at the Junior Oratorical Contest. This is called the Wetzel Oratorical Prize and has been endowed by J. W. Wetzel, Esq., Carlisle, Pa.

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Two prizes are awarded to members of the Senior Class who shall be judged to hold first and second places in a Senior Prize Debate.

William H. Keller, Esq., of Lancaster City, has offered an annual prize of twenty-five dollars to be awarded at the end of the Sophomore year to the student who has made the best record in the study of Latin and Greek during the Freshman and Sophomore years.

Mr. H. E. Slagenhaup, A. M., of Lancaster city, offers an annual prize of ten dollars for proficiency in Greek to members of the Junior Class.

There are two prizes offered by both the Diagnothian and Goethean Societies in an oratorical contest for members of the Sophomore and Freshmen classes.

Mr. Milton T. Garvin, of Lancaster, offers, provisionally for the present, a one hundred dollar scholarship to an advanced student in biology, to be designated by the professor of that department, for special vacation work at one of the marine biological laboratories.

REQUIREMENTS FOR ADMISSION.

Students are admitted by certificate and on examination. In all cases they must present satisfactory testimonials of good moral character, and, if from other colleges, evidences of honorable dismissal.

Applications for admission to advanced standing in the college will not be received later than the opening of the Senior year.

CERTIFICATES

Students are received by certificate from approved schools and academies whose course of study fully

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covers the requirements for admission. The certificates must state the text-books used in preparation, and the exact amount of work done in each study, as specified in the blank forms furnished by the college and sent to the college direct from the principal of the preparatory school.

Certificates of the College Entrance Examination Board will be accepted.

EXAMINATIONS

Examinations for admission are held during commencement week and the week of the opening of the college year.

Students applying for admission to advanced classes will be examined on both the preparatory work for entrance to college and on the studies previously pursued by the classes they propose to enter.

Local examinations will be held at such times and places as may be agreed upon, provided there be not less than three applicants to be examined at the same place.

The examinations at Lancaster will be held on June 5–7, and September 11–12.

Candidates for the Freshman class must be qualified in the following branches:

For the course leading to A. B.:

HISTORY: Outlines of Ancient History, Descriptive and Physical Geography, Mythology, and a choice of Mediæval, English, American History and Civil Government.

ENGLISH: The Entrance Examination in English is conducted on the lines laid down by the Association of

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Colleges and Preparatory Schools in the Middle States and Maryland.

For 1911 (June and September): Washington's *Farewell Address;* Franklin's *Autobiography;* Goldsmith's *The Deserted Village;* Hawthorne's *The House of the Seven Gables;* Blackmore's *Lorna Doone;* De Quincey's *Joan of Arc* and *The English Mail Coach;* Carlyle's *Heroes and Hero Worship;* Scott's *The Lady of the Lake;* Lowell's *The Vision of Sir Launfal.*

For 1912 (June and September): Bunyan's *Pilgrim's Progress,* Part I.; Pope's *Rape of the Lock;* Hawthorne's *The House of the Seven Gables;* Dickens' *A Tale of Two Cities;* De Quincey's *Joan of Arc* and *The English Mail Coach;* Goldsmith's *The Deserted Village;* Tennyson's *The Princess;* Webster's *First Bunker Hill Oration.*

The candidate will be required to present evidence of a general knowledge of the subject matter, and to answer simple questions on the lives of the authors. The form of examination will be the writing of a paragraph or two on each of several topics to be chosen by the candidate from a considerable number set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. The essentials of English Grammar are presupposed, and no candidate will be accepted whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN: *Cæsar*—four books; *Cicero*—six orations (orations against Cataline, for the Manilian Law and for Archias); *Vergil*—six books of the Æneid; simple ex-

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ercises in Latin prose compositions. The chief aim of the examination will be to test the candidate's knowledge of the subject matter, vocabulary, grammatical forms and constructions; this will also be expected from the showing of the certificates of admission.

MATHEMATICS: Arithmetic, Algebra (through equations of the second degree, including involution, evolution, radical and imaginary quantities, as in Well's University Algebra to Section XXXI., or Robinson's University Algebra to Chapter VI.), Geometry (five books, Wentworth's), Solid Geometry and the Mechanics of Solids, Liquids and Gases (137 pages of Gage's Physics).

GREEK: First Greek Book. Four books of the Anabasis. Fifty exercises in elementary prose composition.

For the course leading to Ph.B.:

The same as above in History, English and Latin. Instead of Greek, the applicant may offer such knowledge of French or German as will indicate a thorough acquaintance with the Grammar and ability to read at sight easy German or French (modern), such as would be acquired by reading about two hundred pages.

MATHEMATICS: The same as for A. B., with the addition of Algebra to the "Theory of Equations." Elementary Physics complete.

SCIENCE: Elementary Botany or Chemistry.

ADVANCED STANDING

No student will be admitted to advanced standing later than the beginning of the Senior year. Students who come from another college must present full credentials for both college and preparatory work and a

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letter of honorable dismissal, to receive credit for an equivalent amount upon the records of the College. Others will be received at the discretion of the Committee on Admission or by examinations held only at the College.

SPECIAL COURSES

Students, not candidates for degrees, may be permitted to pursue special courses, for proficiency in which certificates may be granted; but this permission will be granted only to students of ability and character sufficient to insure their success. They may become regular students by completing all the work required in the number of courses for full standing in any year.

COURSES OF INSTRUCTION

GENERAL STATEMENT

Franklin and Marshall College aims to offer to the student an opportunity to secure such general culture as may tend to develop him into a useful citizen without preparing him for any special profession; to enlarge his scholarship, broaden his views and arouse an intelligent interest in all that is best in modern civilization. The course is based upon such intellectual discipline as has been established by centuries of testing as well as by channels opened up by modern scholarship whose value has been proved equal to that of any agencies employed in the past. Choice of electives is given to the student under such restriction as to secure reasonable breadth for the foundation on which his education is to be built.

The College offers two general courses of study lead-

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ing to the two degrees of A.B. and Ph.B. The A.B. course requires the pursuit of the ancient languages, Latin and Greek, for two years, and one of them for one year more. An exception in this requirement is made in the case of students who begin Greek in the elementary course and who are required to take four years of Greek. The A.B. course also includes four years of modern languages, leaving room for choice between German and French.

The Ph.B. course includes two years of Latin with three years of German and two years of French. In science study the course is resolved into three different groups, viz., (1) one year of chemistry and three years of biology; (2) one year of biology and three years of chemistry; (3) one year of biology and one year of chemistry, with either calculus and advanced analytical geometry or applied electricity and physical measurements.

Each student is required to have at least seventeen hours of recitation or lectures, exclusive of gymnasium drill; and no credit will be given for more than five hours of the seventeen in one department. Two hours of laboratory work count as one hour of recitation.

PHILOSOPHY

DR. STAHR

The course of instruction in this department has two ends in view: To familiarize the student with the methods of philosophic thought and discipline the mind in thinking so as to look for the ultimate ground of knowledge; and to give him such a view of himself and of his

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relation to society, to nature and to God, that he will be able to correlate all the branches of learning in a system of liberal culture.

(*a*) PHILOSOPHY OF HISTORY.—A course of lectures with oral and written recitations. Sophomore elective. One hour a week; first semester.

(*b*) PSYCHOLOGY.—The class begins the study of Psychology, taking up the study of the nervous system and its relation to consciousness. Sophomore requirement. One hour a week; second semester.

(*c*) PSYCHOLOGY.—Continues the study of Psychology, using the text-books of Stout and Calkins, with free lectures and recitations. Junior requirement. Two hours a week; first semester.

(*d*) ÆSTHETICS.—A course of lectures on Æsthetics, outlining the theory of the beautiful with its modifications, the sublime and the comic. Afterwards the class studies the application of æsthetic principles in the development of art. Junior requirement. Two hours a week; second semester.

(*e*) ETHICS.—A course of lectures. The first part is devoted to Metaphysical Ethics, including a discussion of the nature of Freedom and the Formation of Character. The second part, or Practical Ethics, treats of the nature of Virtue, Duty and the Good, and the differentiation of the latter in the forms of Right, Social Cointegration and Religion. The lectures are accompanied by recitations, free discussions and essay writing. Senior requirement. Two hours a week throughout the year.

(*f*) PEDAGOGY.—Includes the study of the Philosophy of Education as well as the practical application of

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Pedagogic Principles. This course is important, not only to students who expect to teach, but also to others who desire a thorough grounding in the principles of true education and culture. Senior elective. Two hours a week throughout the year.

(*g*) LOGIC.—An optional course open to Juniors and Seniors. Two hours a week; second semester.

GREEK

PROF. HELLER. PROF. SCHAEFFER

The study of Greek is required of all candidates for the degree of Bachelor or Arts. Courses are offered for two classes of students: (1) those who enter with full credit for the preparatory work in Greek, and (2) those who begin Greek in the college. The former are required to take Courses *c* and *d;* and, in addition, Course *e* or Course *g* is required of those who do not elect one year of Latin after the Sophomore year. Students who begin Greek after entrance are required to take Courses *a*, *b*, *d*, and *g* or *e*.

The purpose aimed at in the department is to give the student such a mastery of the accidence and syntax of the language and such command of its vocabulary as will enable him to read simple Attic Greek with some degree of rapidity and ease, and at the same time to make him acquainted with Greek literature in all of its principal divisions, as illustrated by the works of its greatest writers, as well as familiar with the customs and institutions of the Greek people.

(*a*) ELEMENTARY GREEK.—First Greek Book (White). Anabasis, begun (Goodwin and White). Freshman

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A. B. requirement for those who enter without Greek. Four hours a week throughout the year.

(*b*) SECOND YEAR GREEK.—Anabasis, continued to end of Book IV. Homer, Iliad, XVI ff. (Leaf and Bayfield, Vol. 2), or Odyssey, IX ff. (Merry). This course is designed to fit the student to take up Course *d*. Sophomore A. B. requirement for those who have completed Course *a*. Three hours a week throughout the year.

(*c*) Xenophon, Hellenica (Brownson). Greek prose composition. Herodotus, VIII. (Smith and Laird). Homer, Iliad, XVI. ff. (Leaf and Bayfield, Vol. 2). Freshman A. B. requirement for those who have credit for the preparatory work in Greek. Four hours a week throughout the year.

(*d*) Homer, Iliad, finished. Plato, selections (Forman). Euripides, Alcestis (Jerram). Required of Sophomores who have completed Course *c* and of Juniors who have completed Course *b*. Three hours a week throughout the year.

(*e*) GREEK DRAMA.—Æschylus, Prometheus Bound. Sophocles, Œdipus Rex. Aristophanes, Frogs. Lectures on the history of the Greek drama and theatre. Elective. Open to Juniors who have had Course *d*, and by special permission to others. Two hours a week throughout the year.

(*f*) LYRIC GREEK.—Pindar, Olympian and Pythian Odes. Theocritus, Idylls. Elective. Open to those who have had Course *e*. Two hours a week throughout the year.

(*g*) Demosthenes, Philippics or Oration on the Crown. Thucydides, VI–VII, or Plato, Apology and Crito. Re-

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quired of Seniors who began Greek in their Freshman year. Open to others. Two hours a week throughout the year.

(*h*) NEW TESTAMENT GREEK.—This course consists of a study of the characteristics of the language of the New Testament, the careful reading of the Gospel according to St. Mark and of one of the Epistles of St. Paul, and frequent reports prepared by members of the class. Each student is expected to own Nestle's Novum Testamentum Graece et Latine, and to make constant use of books reserved at the Library. Senior elective. One hour a week throughout the year.

LATIN

DR. MULL. PROF. SCHAEFFER.

The course in Latin is arranged to be in harmony with the general purpose of a four-year college course and it is taught and studied with the view to secure the best results attainable within these limits. The disciplinary value of the study is held to be of prime account. Constant stress is laid upon the requirements of close, careful and painstaking study in the preparation of the lessons assigned. Upon this presumption the classroom instruction proceeds, with steady reference to the needs and benefits of the largest number. The quality of the work done is rated above the quantity of ground covered. The aim is to afford every student the amplest opportunity to acquire a knowledge and free use of the means and methods of translation and interpretation; to form correct habits of study, and thus to furnish him with the equipment that is believed to be essential in

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any serious effort to gain conscious mastery of the subject in whole or in part. The literary values are not underestimated, but they are not made the subjects of technical instruction or the objects of critical study. They are used rather as stimulants for the quickening of the student's own powers of perception and appreciation of literary values in general, and as silent working factors in the process of mental culture. Here the aim is to nourish development from within by the cultivation of the literary feeling based on correct standards, thus placing within reach of the student an acquisition that is susceptible of indefinite enlargement.

(*a*) LIVY.—Horace Odes. Exercises in Prose Composition. Freshman requirement. Four hours a week throughout the year.

(*b*) HORACE, Odes finished; Satires and Epistles; Juvenal's Satires. Sophomore requirement. Three hours a week throughout the year.

(*c*) CICERO, DE ORATORE (Rockwood); Pliny's or Cicero's Select Letters. Junior elective. Two hours a week throughout the year.

(*d*) THE HISTORIES OF TACITUS by Moore.—A critical study of the text, with a special collateral study of the Roman History writers. Senior elective. Two hours a week; first semester.

(*e*) A STUDY OF THE ROMAN DRAMA AND DRAMATIC LITERATURE, with lectures, and readings in Plautus and Terence; or selections from the Latin Fathers and Latin Hymns. Senior elective. Two hours a week; second semester.

(*f*) LATIN PROSE WRITING.—Senior elective. One hour a week throughout the year.

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MODERN LANGUAGES

DR. DIPPELL

The first two years of modern language study are devoted to the acquirement of a working knowledge of the language itself, while the higher courses emphasize the study of the literature. Drill in pronunciation and the careful study of grammar begin the course, and the translation of easy texts is taken up as early as possible, thus laying the foundation for a working vocabulary. The work is progressively arranged throughout the course, grammar study leading up to syntax and advanced composition, while modern texts are followed by the works of the great writers of the eighteenth century, and instruction in special topics is given, ending in a general view of the literature.

The foreign language is used in the class-room as far as practicable, and an effort is made to train the student to express himself correctly in simple language, although it is realized that the ability to speak a modern language freely requires far more practice than can be had in a brief college course.

GERMAN

(*a*) FRESHMAN GERMAN.—Pronunciation, composition and dictation. Students are thoroughly drilled in the fundamentals of the language—declensions, conjugations and simple syntax. Some easy text is read near the close of the second semester. Two hours a week throughout the year.

(Required of Freshmen taking Ph.B. course. Open to Freshmen in the A.B. course.)

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(*b*) ADVANCED FRESHMAN GERMAN.—Grammar, composition and translation. For those Freshmen who have passed the entrance requirements in German. Two hours a week throughout the year.

(*c*) SOPHOMORE GERMAN.—Reading and translation of modern German texts. Specific drill in pronunciation, syntax and composition. Ph.B. requirement; A.B. elective. Two hours a week throughout the year.

(*d*) JUNIOR GERMAN.—*First Semester.*—Reading of a play of Schiller's; special endeavor is made to get the German point of view in the drama read.

Second Semester.—A play of Lessing or one of Goethe's works is read. Advanced prose composition.

(Both courses required of Juniors in the Ph.B. course; A.B. elective.)

(*e*) GOETHE'S FAUST.—Reading and translation of Faust; discussions on topics suggested by the play; structure of the drama. Lectures on the rise and development of the German theatre.

(*f*) LECTURES ON GERMAN LITERATURE.—Complimentary course to (*e*). Two hours a week. Second semester. Open only to Seniors.

(*g*) GERMAN CONVERSATION.—Open only to Seniors during the second semester. No other language is used in the class-room.

(*h*) SCIENTIFIC GERMAN.—A course of reading in works covering a broad field of scientific and literary topics. Senior elective. One hour a week throughout the year.

FRENCH

(*a*) FIRST YEAR FRENCH.—Drill in the fundamentals of the language. Frazer and Squair's Grammar will be

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used in 1911–1912. Pronunciation, dictation and translation from English into French. (Freshmen Ph.B. requirement; open to A.B. Freshmen and Juniors.)

(*b*) SECOND SEMESTER.—Grammar, simple syntax and composition. Reading of some simple modern text. Open only to those having completed (*a*). Two hours each per semester.

(*c*) SECOND YEAR FRENCH.—Grammar, composition and advanced syntax. Reading of several French plays. (Sophomore Ph.B. requirement; open to A.B. Sophomores and Seniors.) Two hours a week throughout the year.

ENGLISH

PROF. WAGNER. DR. KLEIN.

In the courses outlined below, the Department of English aims at three objects: (1) An intelligent understanding of the origin and development of the English Language and Literature; (2) a general acquaintance with English Literature; (3) a reasonable proficiency in English Composition.

(*a*) COURSE IN ENGLISH COMPOSITION.—A study of style, prose and poetic diction, and composition in general, based on Genung's Working Principles of Rhetoric. Frequent exercises and class-room criticism. Freshman requirement. Two hours a week; first semester.

(*b*) CONTINUATION OF COURSE *a*.—A study of invention in its elements, and of the several literary types; description, narration, exposition and argumentation. Selected specimens of verse and prose from the writings of representative authors. Continued written work.

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Genung's Principles of Rhetoric. Freshman requirement. Two hours a week; second semester.

(*c*) AN HISTORICAL SKETCH OF ENGLISH LITERATURE, on the basis of Brooke's Primer, with exercises in composition. Sophomore requirement. Two hours a week; first semester.

(*d*) A STUDY OF THE ENGLISH ESSAYISTS, with progressive reading of selected works. A special study of Burke—his character, opinions and prose style. His speeches on "Taxation" and "Conciliation" are read and discussed in the class-room. Compositions. Sophomore requirement. Two hours a week; second semester.

(*e*) LANGUAGE AND LITERATURE.—This course is devoted to a study of the English language, due attention being given to the distinctive literary quality and artistic value of each work read. A critical reading of Spenser's Faery Queen, Chaucer's Prologue and part of the Knighte's Tale. Essays. Junior requirement. Two hours a week; first semester.

(*f*) A continuation of course (*e*). A critical reading of Langland's Piers the Plowman; The Ormulum and The Ancren Riwle, or other specimens of Middle English. Junior requirement. Two hours a week; second semester.

(*g*) LECTURES ON THE ELIZABETHAN DRAMA, with critical reading of selected plays of Marlowe, Ben Jonson, Beaumont and Fletcher and Webster. Theses. Senior requirement. Two hours a week; first semester.

(*h*) Lectures on some period or some group of writers particularly noteworthy in the history of the literature, with thesis; a critical reading of Shakespere's As You Like It, Hamlet, and The Tempest; Milton's Comus and

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Lycidas; or of other works determined by the course. Senior requirement. Two hours a week; second semester.

(*i*) OLD ENGLISH.—An investigation of the beginnings and earlier developments of the English language and literature. Cook's First Book in Old English is used as the basis of this work. Senior elective. One hour a week; first semester.

(*j*) HIGHER RHETORIC.—This course consists of a study of higher rhetoric and the theory of English prose style. Lewes' Principles of Success in Literature is used as the basis, with critical readings of selected specimens and other collateral work. Senior elective. One hour a week; second semester.

(*k*) SHAKSPERE.—A critical reading, in chronological order, of as many of Shakspere's plays (Comedies, Histories, Tragedies, Romances) as time and circumstances may permit. The constant aim here is not only to familiarize the student with Shakspere's dramatic work, but to trace, in the plays as they were produced from year to year, the steady development of his mind and art. Senior elective. One hour a week throughout the year.

(*l*) LITERARY CRITICISM.—When requested by a sufficient number of those interested, a course in literary criticism is offered. This course may continue during one or both semesters. McLaughlin's Literary Criticism is the text-book; but the work consists chiefly of papers upon assigned topics, read and discussed by the members of the class. Senior elective. One hour a week throughout the year.

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ENGLISH BIBLE

DR. STAHR. PROF. APPLE

The study of the English Bible is based on the conviction that a knowledge of its historical facts, literary forms, modes of thought, and above all, of its ethical and religious teachings, is an essential element of all true culture. The work extends over four years, one hour a week and is required of all students unless excused for conscientious reasons.

(*a*) THE GOSPELS. Freshmen.

(*b*) OLD TESTAMENT HISTORY. Sophomores.

(*c*) THE ACTS OF THE APOSTLES AND THE EPISTLES. Juniors.

(*d*) OLD TESTAMENT HISTORY. A continuation of course (*b*). Seniors.

HISTORY

DR. KLEIN

The Department of History has a two-fold aim: (1) To give the student a comprehensive survey of the development of Western Europe, it offers in the Freshman and Sophomore years a general course in European History from the decline of the Roman Empire to the end of the nineteenth century; (2) to familiarize the student with the methods of modern historic scholarship as found in the use of sources and the weighing of precise problems of research and criticism, it offers in the Junior and Senior years more detailed courses on particular periods in European and American History. In all the courses offered, the subject comprises lectures,

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supplementary reading, the writing of essays and the study of selected historical documents.

(*a*) INTRODUCTORY COURSE IN MEDIÆVAL HISTORY. An elementary study for students who have entered college without Mediæval History. This course is devoted to the study of the more important movements and epochs in European History since the fall of Rome, such as the Barbarian Invasion, the rise and development of the Mediæval Empire, the growth and importance of the Mediæval Church, Mohammedanism, the Crusades, Feudalism, and other characteristic phenomena of the period. Thatcher and Schwill's Europe in the Middle Age, and Ogg's Source Book of Mediæval History. Freshman requirement. One hour a week throughout the year.

(*b*) GENERAL HISTORY OF EUROPE FROM THE END OF THE THIRTEENTH TO THE BEGINNING OF THE SIXTEENTH CENTURY.—The Renaissance; the rise of cities; the rise of the modern nations; preparation for the Reformation. The Close of the Middle Ages, by Lodge. Freshman requirement. Two hours a week; first semester.

(*c*) GENERAL HISTORY OF EUROPE FROM THE OPENING OF THE SIXTEENTH CENTURY TO THE PEACE OF WESTPHALIA.—The Reformation will be considered in its relation to all the larger problems of modern history. The course will also include a study of the Humanists; the Counter-Reformation; the Independence of the Dutch; the Thirty Years' War, etc. Johnson's Europe in the Sixteenth Century. Freshman requirement. Two hours a week; second semester. Lectures and assigned readings.

(*d*) GENERAL HISTORY OF EUROPE FROM 1648 TO

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1789. The Ascendancy of France; Louis XIV; Rise of Prussia and Russia; the Seven Years' War; the Balance of Power in Europe; Europe and the War of American Independence. Lectures, assigned readings and discussions. The Balance of Power, by Hassall. Sophomore requirement for those who do not take chemistry in the Sophomore year. Two hours a week; first semester.

(*e*) REVOLUTIONARY EUROPE.—The institutions of the old regime in France; the causes and courses of the French Revolution; the effects of the French Revolution upon other countries of Europe; Napoleon and the Napoleonic Wars; the overthrow of Napoleon and the Treaties of Paris. Lectures, assigned readings, discussions and the preparation of short monographs. Stephen's Revolutionary Europe. Sophomore requirement for those who do not take Chemistry in the Sophomore year. Two hours a week; second semester.

(*f*) AMERICAN HISTORY.—The formation of the Union, 1750–1829; expansion of English Colonies; rivalry of French and English; the causes of the Revolution; the organization of the government under the constitution; the development of national self-consciousness; social, economic and political reorganization. Lectures, collateral reading, preparation of monographs, discussion of theses on the basis of original authorities. Hart's Formation of the Union. Hart's American History Told by Contemporaries. Junior elective. Two hours a week; first semester.

(*g*) AMERICAN HISTORY.—Division and Reunion from 1829–1910, with special reference to the Civil War, and Reconstruction; also later United States History, including the new problems of the last quarter of the

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century. Lectures, assigned reading, preparation of essays based on original research. Division and Reunion, by the Hon. Woodrow Wilson, Ph.D. Select Documents of United States History, by Wm. MacDonald. Junior elective. Two hours a week; second semester.

(*h*) HISTORY OF MODERN PHILOSOPHY.—A course devoted to the history of the development of thought from Bruno to Spencer. Lectures, assigned readings and discussions. The course aims not only at a description of philosophical systems, but emphasizes required reading of selections from the works of the great philosophical masters themselves. Weber's History of Philosophy. Rand's Modern Classical Philosophers. Junior elective. One hour a week throughout the year.

(*i*) EUROPEAN HISTORY IN THE NINETEENTH CENTURY.—This course aims to present the most important developments in the history of European countries since 1815. The reaction in Europe after the overthrow of Napoleon; the reconstruction of Germany; Greek Independence; Revolutions of 1830 and 1848, etc. Lectures, discussions, assigned reading, and preparation of monographs. Hazen's Europe since 1815. Senior elective. Two hours a week; first semester.

(*j*) EUROPEAN HISTORY SINCE 1848. Napoleon III and the Crimean War; the Union of Italy; the Founding of the German Empire; the Franco-German War; the British Empire in the Nineteenth Century; the Rise of the Balkan States; Industrial Revolution in Russia; the Eastern Question; the Expansion of Europe in Asia and Africa; features of modern progress and a practical study of comparative contemporary political problems.

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Lectures, collateral readings and the preparation of monographs on the basis of research. Hazen's Europe Since 1815. Senior elective. Two hours a week; second semester.

(*k*) PREHISTORIC ARCHÆOLOGY.—Lectures with collateral reading. The course embraces the study of the earliest human records and their interpretation; the evidences of man's antiquity, social life of primitive man; theories of language, primitive arts, industries and religions. Keary's Dawn of History. Senior elective. One hour a week. First semester.

(*l*) HISTORIC ARCHÆOLOGY.—This course embraces the history of the origin and development of the fine arts. Lectures are also devoted to the minor archæological sciences. Brown's The Fine Arts. Reinach's Apollo. Senior elective. One hour a week; second semester.

POLITICS.

PROF. HIESTER

(*a*) AMERICAN GOVERNMENT.—A general survey of civil government in the United States, which presupposes an elementary knowledge of the Federal Constitution. It includes a study of the origin, development and practical workings of the national government, a description of the state governments and their relation to the national government, an examination of the various forms of local and municipal government, and a brief account of political parties, their history, policies and machinery. Hart's Actual Government; Bryce's American Commonwealth. Sophomore elective. Two hours throughout the year.

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(*b*) POLITICAL SCIENCE.—An analytical and historical examination of the modern state. The main topics considered are the nature and origin of the state, the province of government, the scope and content of individual liberty, the structure of the governments of the most important countries, and the place of political parties in the mechanism of modern government. Leacock's Elements of Political Science; Lowell's Governments and Parties in Continental Europe. Junior elective. Two hours throughout the year.

(*c*) AMERICAN CONSTITUTIONAL LAW.—Designed to give a knowledge of the general principles of the constitutional law of the United States. The growth and development of the Federal Constitution through judicial interpretation is carefully observed and the more important decisions of the Supreme Court are analyzed. Cooley's Principles of Constitutional Law; Boyd's Cases on Constitutional Law. Two hours throughout the year. Given only in alternate years and open to both Juniors and Seniors. Omitted 1911–1912.

(*d*) INTERNATIONAL LAW.—A study of the nature, history, subjects and sources of international law, with particular reference to the history of American diplomacy and the part which the United States has played in the development of international law. Lawrence's Principles of International Law; Moore's American Foreign Policy. Two hours throughout the year. Given in alternate years and open to Juniors and Seniors. Omitted 1912–1913.

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ECONOMICS

PROF. HIESTER

(*a*) GENERAL ECONOMICS.—An introduction to the principles of Political Economy. It is designed for the needs of the general student and embraces, in addition to a comprehensive study of the principles underlying the production, exchange, distribution and consumption of wealth, a rapid survey of the evolution of economic society, and a brief history of economic thought. Ely's Outline of Economics. Junior requirement. Two hours throughout the year.

(*b*) LABOR PROBLEMS.—A critical examination of the economic and social condition of the working classes of Europe and America, of woman and child labor, strikes, boycotts, arbitration, conciliation, profit-sharing, co-operation, socialism, trade unions, labor legislation and industrial education. Adams and Sumner's Labor Problems; Common's Trade Unionism and Labor Problems. Senior elective. Two hours; first semester.

(*c*) INDUSTRIAL PROBLEMS.—A study of modern industrial combinations, their historical development, their economic and social effects, and their relation to federal and state legislation. Ripley's Trusts, Pools and Corporations; Meade's Trust Finance. Senior elective. Two hours; second semester.

SOCIOLOGY

PROF. HIESTER

(*a*) GENERAL SOCIOLOGY.—An elementary course dealing with the structure and functions of contempor-

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ary society and the conditions and forms of social progress, with a brief survey of the history of sociological thought. Small and Vincent's Introduction to the Study of Sociology. Senior elective. Three hours; first semester.

(*b*) APPLIED SOCIOLOGY.—An advanced course dealing with certain problems of social psychology, such as suggestion, the mob mind, fashion, custom, conventionality, imitation, conflict, compromise and the formation of public opinion. Ross's Social Psychology. Senior elective. Three hours; second semester.

MATHEMATICS.

DR. KERSHNER. PROF. APPLE.

(*a*) ALGEBRA, including progressions, permutations and combinations, binomial theorem, series, logarithms and theory of equations. Text: Well's University Algebra. Freshman A. B. requirement. Two hours a week; first semester and part of second.

(*b*) SOLID GEOMETRY.—Text: Wentworth's Plane and Solid Geometry. Freshman requirement. Two hours a week; first semester and part of second.

(*c*) DESCRIPTIVE GEOMETRY AND MECHANICAL DRAWING.—Freshman elective. Two hours a week throughout the year.

(*d*) THEORY OF EQUATIONS, including determinants and complex numbers. Text: Barton. Freshman Ph.B. requirement and A.B. elective. Two hours a week; second semester.

(*e*) TRIGONOMETRY, plane and spherical, including plane surveying. Texts: Ashton and Marsh's Plane and

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Spherical Trigonometry; Wentworth's Plane Surveying. Continued from second semester of Freshman year, four hours a week, through first semester of Sophomore year, three hours a week. Required study.

(*f*) ANALYTICAL GEOMETRY, including straight line, circle, parabola, ellipse and hyperbola, and loci of the second order. Text: Wentworth. Sophomore elective. Three hours a week; second semester.

(*g*) CALCULUS; differential, including the elements of differentiation and integration, Taylor's and Maclaurin's formulas, maxima and minima values of functions, tangents, normals, indeterminate expressions and curve tracing. Elective to Juniors who have had analytical geometry. Three hours a week; first semester.

(*h*) INTEGRAL CALCULUS continued, and differential equations with applications to problems in mechanics. Elective to those who have had elementary calculus. Three hours a week; second semester.

(*i*) ADVANCED ANALYTICAL GEOMETRY, including loci of second order, higher plane curves, and solid geometry. Junior elective. Two hours a week; first semester.

(*j*) MECHANICS WITHOUT CALCULUS, ELEMENTARY ANALYTICAL STATICS AND DYNAMICS.—Junior and Senior elective. Two hours a week throughout the year.

(*k*) COURSE IN MECHANICS with applications of the calculus suitable for students who expect to become engineers. Calculus required. Senior elective. Two hours a week throughout the year.

(*l*) COURSE IN DIFFERENTIAL EQUATIONS.—This course is suitable for students who wish to continue their course in pure mathematics or for engineering

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students who want to take advanced standing in engineering colleges. Courses (*g*) and (*h*) required. Elective. Second semester, one hour a week.

PHYSICS

DR. KERSHNER

(*a*) PHYSICS with laboratory demonstrations. Mechanics, sound, light and heat. College Physics, Carhart. Junior requirement. Three hours a week; first semester.

(*b*) PHYSICS with laboratory demonstrations, continued. Electricity and magnetism. Junior requirement. Three hours a week; second semester.

(*c*) PHYSICAL MEASUREMENTS IN MECHANICS AND HEAT.—Ames and Bliss. Junior elective. Two hours a week; first semester.

(*d*) PHYSICAL MEASUREMENTS, continued, in heat, light, electricity and magnetism. Junior elective. Two hours a week; second semester.

(*e*) APPLIED ELECTRICITY.—This includes measurements of electromotive forces, resistances, capacities, magnetic properties of iron; and efficiency and characteristics of dynamos. Elective to Juniors or Seniors who have taken Mathematics (*f*) and Physics (*b*). Two hours a week throughout the year.

(*f*) THEORY OF ELECTRICITY.—Required for course (*e*). Junior and Senior elective. One hour a week throughout the year. This course is required in addition to (*a*) and (*b*) by those who want to enter university courses where four hours of General Physics is required.

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ASTRONOMY

PROF. APPLE

(*a*) PRACTICAL ASTRONOMY, with work in the Observatory on the problems of time, latitude, longitude and azimuth. Text: Doolittle. Also method of least squares. Elective for those taking Mathematics (*g*). Two hours a week; first semester.

(*b*) A continuation of course (*a*) with advanced work in the Observatory. Two hours a week; second semester.

(*c*) GENERAL ASTRONOMY. Text: Young. Junior and Senior elective to those who have had plane and spherical trigonometry and elements of physics. Three hours a week; second semester.

BIOLOGY

DR. SCHIEDT

The study of biology is of prime importance in a modern curriculum of liberal culture. Its aim is: (1) To present from a scientific standpoint the main facts relating to form, function and relationship of the best types of plants and animals; (2) to bring the student face to face with the modern methods of biological investigation both in the laboratory and in nature; (3) to enable the student who takes the full course to properly grasp the trend of modern thought that has grown out of these investigations and has influenced all departments of life and learning, especially that of philosophy and pedogogy; (4) to pay particular attention to the preparation of young men for the higher requirements

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of university courses in Biology, Forestry and Medicine. To students who want to prepare for any branch of Economic Zoölogy, the museum is open with its library and collections. The curator offers special instructions to any one desiring such.

(*a*) INVERTEBRATE MORPHOLOGY.—Consists of introductory lectures, study of microscope, gross and microscopic dissection of about twenty types of invertebrates, and lectures and text-book studies on classification, habitat and phylogeny of the lower animals. Texts: Parker and Haswell, and Drew's Laboratory Manual. Sophomore requirement. Five hours laboratory a week, first semester and part of second.

(*b*) VERTEBRATE ZOÖLOGY.—Consisting of lectures on the comparative organography of the vertebrates, special study of primitive vertebrates and the dissection of dog-fish, frog, pigeon and cat. Texts: Parker and Haswell, and Pratt's Laboratory Notes. Reference books: Parker and Haswell larger edition, Cambridge Natural History, Wiedersheim, etc. Junior elective. Four hours laboratory throughout the year.

(*c*) VERTEBRATE HISTOLOGY.—Text: Stöhr. Reference books: Piersol, Dahlgren and Kepler, etc.; with lectures. Junior elective. Two hours a week throughout the year.

(*d*) ANIMAL PHYSIOLOGY.—An introductory course consisting of experiments in the physiology of muscle and nerve, of circulation, of respiration and of optics, followed by some essential experiments on the income of energy or physiological chemistry. Texts: Porter's Introduction and the American Text-book on Physiology with other references. Senior elective. Four hours a week throughout the year.

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(*e*) VERTEBRATE HISTOLOGY.—A continuation of course (*c*). Senior elective. Two hours a week; first semester.

(*f*) EMBRYOLOGY OF THE CHICK.—Consisting of lectures, mounting of slides, etc. Text: Lillie's Embryology of the Chick. Senior elective. Two hours a week; second semester.

All the foregoing courses include extensive drawings and the presentation of note books. The laboratory periods are generally unlimited.

(*g*) GENERAL PLANT MORPHOLOGY.—Consisting of introductory lectures and of laboratory and field work on the most common types of Thallophytes, Bryophytes, Pteridophytes and Spermatophytes. Text: Coulter's Morphology. Gray's New Manual. Sophomore requirement. Two hours a week, latter half of second semester.

(*h*) SYSTEMATIC AND STRUCTURAL BOTANY.—Collection and study of 250 plants required. Texts: Brown and Britton, Gray's New Manual, DuBarry, Stevens' Plant Anatomy and Chamberlain's Methods of Plant Histology. Junior elective. Two hours a week throughout the year.

(*i*) PHYSIOLOGY AND ECOLOGY OF PLANTS.—Designed for the needs of forestry students. Senior elective. Text: Clement's Ecology and Physiology, also MacDougal and Ganong. Two hours a week throughout the year. Weekly experiments in the environment.

(*j*) BACTERIOLOGY.—Comprises manipulation of apparatus and study of essential methods of sterilization, incubation, staining, etc., classification. Texts: Jordan's General Bacteriology, Smith's Laboratory Direc-

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tions. Senior elective. One hour a week throughout the year.

(*k*) HUMAN ANATOMY.—Dissection of parts of human body. Elective. One hour a week extending through two years.

GEOLOGY

DR. SCHIEDT

While a purely elective study, Geology is recommended to all science students as a fitting conclusion of both the chemical and the biological courses.

(*a*) DYNAMICAL AND STRUCTURAL GEOLOGY.—Recitations from text combined with the study of the Shaler-Davis models and photographs and the microscopic examination of rock types. Text: Chamberlain and Salisbury's College Geology. Senior elective. Two hours a week; first semester.

(*b*) HISTORICAL GEOLOGY.—A continuation of course (*a*). Senior elective. Two hours a week; second semester.

CHEMISTRY

PROF. BECK

The department of Chemistry offers to the Ph.B. and special student a course extending over four years. The work is planned to cultivate scientific spirit and habit, to instill modern methods of pure and applied chemistry, and to teach correct laboratory manipulation. With these purposes in view, the student is instructed in the theory of general analytical and organic chemistry with related subjects, and is required to spend a large part of his time in the laboratory. The graduate is in a position

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to take up any branch of chemistry intelligently and specialize on it, or the course fits him admirably for further work in medicine or other allied sciences.

To the A.B. student one year of general chemistry is given with an optional year of qualitative analysis. The object of this shorter course is to point out the chemical relations of common life and the world about us, and add practical information and an element of scientific training to a broad college course.

(*a*) GENERAL INORGANIC CHEMISTRY.—Lectures (with experiments) and recitations. The non-metals, metals and their compounds. Laboratory work. Text-book: Inorganic chemistry for colleges, Newell. Junior A. B. and Freshman Ph.B. requirement. Three hours a week throughout the year.

(*b*) QUALITATIVE ANALYSIS.—Qualitative separations of the metals and analysis of natural and artificial products. Chemical Philosophy and Stoichiometry (to accompany Qualitative Course). Laboratory work. Lectures and recitations. Text-books: Noye's, Prescott and Johnson's works on the subject; also Chemical Calculations. Senior elective for A.B. students. Sophomore requirement for those Ph.B. students who take their major work in the sciences in chemistry; elective for all others. Three hours a week throughout the year.

(*c*) QUANTITATIVE ANALYSIS.—Volumetric and gravimetric analysis of chemical compounds, ores, fertilizers, etc. Laboratory and lectures. Text-books: Talbot and Fresenius, supplemented with the methods of chemists who are specialists on particular determinations. Junior requirement for those Ph.B. students who take their major work in the sciences in chemistry;

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elective for all others. Four hours a week throughout the year.

(*d*) ADVANCED QUANTITATIVE ANALYSIS.—A continuation of course (*c*) with special determinations. Senior Ph.B. elective. Three hours a week throughout the year.

(*e*) BLOWPIPE ANALYSIS.—An elementary course in qualitative analysis in the dry way. The chief aim of this course is to assist in the identification of minerals. Lectures and laboratory. Reference book: Blowpipe Analysis by Brush. Senior Ph.B. elective. One hour a week; first semester.

(*f*) MINERALOGY.—Elementary course in physical, chemical and descriptive mineralogy. Laboratory: Practical exercises in determination of the more common mineral species. Text-book: Dana's Mineralogy. Senior Ph.B. elective. One hour a week; first semester.

(*g*) ASSAYING. Furnace assay of gold, silver, lead ores, etc. Laboratory. Text-book: Rickett and Miller's Notes on Assaying. Senior Ph.B. elective. Two hours a week; first semester.

(*h*) ORGANIC CHEMISTRY. Lectures, recitations on the chemistry of the typical compounds of carbon. Laboratory work. Determination of specific gravities, melting and boiling points, vapor densities. General organic analysis. Preparation of organic compounds, examination of foodstuffs. Text-book: Remsen's Introduction to the Study of the Carbon Compounds. Reference: Richter's Organic Chemistry (translated by Smith). Senior Ph.B. elective. Three hours a week; second semester.

Special courses, for men intending to enter upon any particular line of chemical work, can be planned by consultation with the professor in charge.

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SYNOPSIS OF A. B. COURSES

First Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Greek *c* or *a*	4	Greek *d* or	3	Psychology	2	Ethics	2	Economics *b*	2
Latin *a*	4	Greek *b*		Greek *d* or	2	English *g*	2	Sociology *a*	2
German *a* or *b*	2	Latin *b*	3	Latin *c*		Bible *d*	1	Mathematics *i*	2
French *a*		German *c* or	2	German or	2	Gymnasium Drill	2	" *j*	2
English *a*	2	French *c*		French				" *k*	2
Bible *a*	1	English *c*	2	English *e*	2	*Elective.*		Physics *c*	2
History *a*	1	Bible *b*	1	Bible *c*	1	Pedagogy	2	" *e*	2
" *b*	2	History *d*	2	Economics *a*	2	Greek *f*	2	" *f*	2
Mathematics *a*	2	Mathematics *e*	3	Physics *a*	3	" *g*	2	Astronomy *a*	2
" *b*	2	Biology *a*	2	Chemistry *a*	3	" *h*	2	Biology *d*	2
Gymnasium Drill	2	Gymnasium Drill	2	Gymnasium Drill	2	Latin *d*	1	" *e*	2
Elective.		*Elective.*		*Elective.*		" *f*	2	" *i*	1
German *a*	2	Phil. of Hist.	1	Greek *e*	2	German *e*	1	" *k*	1
" *b*	2	German *c*	2	Latin *c*	2	" *f*	1	Geology *a*	2
French *a*	2	French *c*	2	German *d*	2	" *h*	1	Chemistry *b*	3
Mathematics *c*	2	Politics *a*	2	French	2	French *c*	2		
				History *f*	2	English *i*	1		
				" *h*	1	" *k*	1		
				Politics *b*	2	" *l*	1		
				Mathematics *g*	3	History *i*	2		
				" *i*	2	" *k*	1		
				" *j*	2	Politics *c*	2		
				Physics *c*	2	" *d*	2		
				" *e*	2				
				" *f*	1				
				Astronomy *a*	2				
				Biology *b*	2				
				" *c*	2				
				" *h*	2				
				" *k*	1				

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SYNOPSIS OF A. B. COURSES

Second Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Greek *c* or *a*	4	Psychology	1	Æsthetics	2	Ethics	2	Economics *c*	2
Latin *a*	4	Greek *d* or *b*	3	Greek *h* or Latin *c*	2	English *h*	2	Sociology *b*	3
German *a* or *b* / French *b*	2	Latin *b*	3			Bible *d*	1	Mathematics *i*	2
English *b*	2	German *c* or French *c*	2	German or French	2	Gymnasium Drill	2	" *k*	2
Bible *a*	1	English *d*	2	English *f*	2			" *l*	2
History *a*	1	Bible *b*	1	Bible *c*	1	*Elective.*		Physics *e*	2
" *c*	2	History *e*	2	Economics *a*	2	Pedogogy	2	" *f*	1
Mathematics *a*	2	Biology *g*	2	Physics *b*	3	Logic	2	Astronomy *b*	2
" *b*	2	Gymnasium Drill	2	Chemistry *a*	3	Greek *f*	2	" *c*	3
Gymnasium Drill				Gymnasium Drill	2	" *g*	2	Biology *d*	2
		Elective.				" *h*	1	" *f*	2
Elective.		German *c*	2	*Elective.*		Latin *e*	2	" *i*	2
German *a*	2	French *c*	2	Logic	2	" *f*	1	" *j*	1
" *b*	2	Politics *a*	2	Greek *e*	2	German *e*	2	" *k*	1
French *b*	2	Mathematics *f*	3	Latin *c*	2	" *f*	2	Geology *b*	2
Mathematics *c*	2			German *d*	2	" *g*	1	Chemistry *b*	3
" *d*	2			French	2	" *h*	1		
				History *g*	2	French	2		
				" *h*	1	English *j*	1		
				Politics *b*	2	" *k*	1		
				Mathematics *h*	3	" *l*	1		
				" *j*	2	History *j*	1		
				" *k*	2	" *l*	1		
				Physics *d*	2				
				" *e*	2				
				" *f*	1				
				Astronomy *b*	2				
				" *c*	3				
				Biology *b*	2				
				" *c*	2				
				" *h*	2				
				" *k*	1				

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SYNOPSIS OF PH. B. COURSES

First Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Latin *a*	4	Latin *b*	3	Psychology	2	Ethics	2	Physics *c*	2
German *a* or *b*	2	German *c*	2	German *d*	2	English *g*	2	" *e*	2
French *a*	2	French *c*	2	English *e*	2	Bible *d*	2	" *f*	1
English *a*	2	English *c*	2	Bible *c*	1	Gymnasium Drill	2	Astronomy *a*	2
Bible *a*	1	Bible *b*	1	Economics *a*	2			Biology *d*	2
History *a*	1	History *d*	2	Physics *a*	3	*Elective.*		" *e*	2
" *b*	2	Mathematics *e*	3	Gymnasium Drill	2	Pedagogy	2	" *i*	2
Mathematics *b*	2	Biology *a*	2			Latin *d*	2	" *j*	1
Chemistry *a*	3	Gymnasium Drill	2	*Elective.*		" *f*	1	" *k*	1
Gymnasium Drill	2			Latin *c*	2	German *e*	2	Geology *a*	3
		Elective.		History *f*	2	" *i*	1	Chemistry *d*	3
Elective.		Philos. of Hist.	1	" *k*	1	" *h*	1	" *e*	1
Mathematics *c*	2	History *c*	2	Politics *b*	2	English *i*	1	" *f*	1
		Politics *a*	2	Mathematics *g*	3	" *k*	1	" *g*	2
		Chemistry *b*	3	" *i*	2	" *l*	1		
				" *j*	2	History *i*	2		
				Physics *c*	2	" *k*	1		
				" *e*	2	Politics *c*	2		
				" *f*	1	" *d*	2		
				Astronomy *a*	2	Economics *b*	2		
				Biology *b*	2	Sociology *a*	3		
				" *c*	2	Mathematics *g*	3		
				" *h*	2	" *j*	2		
				" *k*	1	" *i*	2		
				Chemistry *c*	4	" *k*	2		

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SYNOPSIS OF PH. B. COURSES

Second Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Latin *a*	4	Psychology	1	Æsthetics	2	Ethics	2	Mathematics *h*	3
German *a* or *b*	2	Latin *b*	3	German *d*	2	English *h*	2	" *j*	2
French *b*	2	German *c*	2	English *f*	2	Bible *d*	1	" *k*	2
English *b*	2	French *c*	2	Bible *c*	1	Gymnasium Drill	2	" *l*	2
Bible *a*	1	English *d*	2	Economics *a*	2			Physics *d*	2
History *a*	1	Bible *b*	1	Physics *b*	3	*Elective.*		" *e*	2
" *c*	2	History *e*	2	Gymnasium Drill	2			" *f*	1
Mathematics *b*	2	Biology *g*	2			Pedagogy	2	Astronomy *b*	2
" *d*	2	Chemistry *b*	3	*Elective.*		Logic	2	" *c*	3
Chemistry *a*	3	Gymnasium Drill	2			Latin *e*	2	Biology *d*	2
				Logic	2	" *f*	1	" *f*	2
Elective.		*Elective.*		Latin *c*	2	German *e*	2	" *i*	2
Mathematics *c*	2	History *d*	2	History *g*	2	" *f*	2	" *j*	1
		Politics *a*	2	" *h*	1	" *g*	1	" *k*	1
		Mathematics *f*	3	Politics *b*	2	" *h*	1	Geology *b*	2
		Chemistry *b*	3	Mathematics *h*	3	English *j*	1	Chemistry *d*	3
				Physics *d*	2	" *k*	1	" *h*	3
				" *e*	2	" *l*	1		
				" *f*	1	History *j*	1		
				Astronomy *b*	2	Economics *c*	2		
				" *c*	3	Sociology *b*	3		
				Biology *b*	2				
				" *c*	2				
				" *h*	2				
				" *k*	1				
				Chemistry *c*	4				

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DEGREES CONFERRED IN 1910

Degrees in Course

Bachelor of Arts

Leon Milton Arner
Nathan Harold Corman
Howard Elsward Creitz
Howard Hoch DeLong
Arthur Bertram Gable
Jacob Boise Glick
Addison Hershey Groff, Jr.
Edward Daum Haertter
Arthur Rupp Hartzell
Harry Lightner Heckel
Amos Carpman Henry
William Nies Kline
Edgar Daniel Kramer
James Thomas Lane
Willis Weaver Lantz
Edwin Oliver Marks
Jacob Gibble Meyer
Theodore Wayne Miller
William Shultz Raub
Gordon Nevin Rebert
John Morris Scholl
Augustine Smith
Henry Geary Snyder
Thomas Jefferson Wagner
Charles Geiger Watt
James Watt
Henry Edgar Weisel
John Claten Werner
Mark Nevin Wickert

Bachelor of Philosophy

Charles Raymond Brenner
Tom Cummings
Marion Wiest Emrick
William Norman Fenninger
Harry Abram Grove
Leon Edw. Humphreville
George Merle Whitmore

Master of Arts

Howard Ernest Slagenhaup, of Lancaster, Pa.

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Master of Philosophy

Ray Harbaugh Dotterer, of Rockwood, Pa.
Lloyd Ephraim Strohm, of Lancaster, Pa.

HONORARY DEGREES

Doctor of Divinity

Rev. Julius Hofmann, of Baltimore, Md.

Doctor of Pedagogy

Prof. E. Mackey, of Trenton, N. J.

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FRANKLIN AND MARSHALL ACADEMY

INSTRUCTORS

THADDEUS G. HELM, A.M., Principal,
Greek

EDWIN M. HARTMAN, A.M., Principal,
German

MARTIN W. WITMER, A.B.,
English

GEORGE A. LAND, A.B.,
Latin

WILLIAM L. MACHMER, A.B.,
Mathematics and Science

EDWIN A. NACE, A.B.,
Mathematics and Latin

F. LYMAN WINDOLPH, A.B.,
English and French

HENRY I. STAHR, A.M.,
Latin and German

JOHN B. LENTZ, A.B.,
Physical Director

JACOB B. LANDIS, A.B.,
History

WILLIAM A. KREIDER,
Mathematics

SAMUEL M. NEAGLEY,
Mathematics

PAUL J. BOWMAN,
Mathematics

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THE ACADEMY

History

Franklin and Marshall Academy was originally a preparatory department connected with Franklin College. After the union of Marshall College with Franklin College, this department was continued in immediate connection with Franklin and Marshall College, and in 1872, was named Franklin and Marshall Academy, when a new building was erected for its use and a separate faculty and management were appointed, so as "to make more ample provision for its efficiency and to enlarge its usefulness." An additional building was erected three years ago at a cost of $100,000.

Location

The Academy is located on the campus of Franklin and Marshall College. It is the most elevated ground for miles around, affording good drainage, pure air, sanitary conditions and fine distant views of five to fifteen miles.

Aim

The aim of the Academy is well expressed in the words used nearly forty years ago in the resolution of the trustees changing the preparatory department to Franklin and Marshall Academy. It is to be "in the best and highest sense, a training school for boys who desire to go to college, and also to furnish a complete

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academical course for those who do not purpose taking a full collegiate course of study."

While seeking to develop right habits of study and accurate scholarship, the school endeavors also to develop and mold the sound Christian character, which is more important than scholastic efficiency. Students are taught that hard, honest work is one of the most important factors in forming character. The influences of Christianity are constantly employed as the most effectual means of establishing principles of sound, practical morality.

BUILDINGS

The new building is large, beautiful, well-planned, finished in hard wood, modern in every detail and substantially built, at a cost of $100,000. It is about 215 feet long, running north and south, has two wings, 40x75 feet, and a chapel built west of the main building, seating about 350 boys. In the center of the building is a large, square hall, finished in dark oak, with a large fire place and heavy mission furniture. This is used as a general living room and game room and is a fine feature for the school. South of this is the colonial dining room. To the north are the reading room and offices. On the west side is the entrance to the chapel. In the north wing are recitation rooms and a school room seating one hundred boys at single desks. In the south wing are the principal's apartments, school kitchen, servants' apartments, etc. The second and third floors are dormitories. About one-half of the students can be accommodated in single rooms, or two boys in two communicating rooms, and the balance in double rooms

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with single beds, two large closets, two chiffoniers, a table and three chairs, all of the mission type. On each dormitory floor there are three bath rooms, with terazzo floors, tile wainscoating, marble shower baths, Standard fixtures and the most sanitary plumbing. Every boy in school has a Merrit metal locker in the basement.

The electric wiring is all conduit. There are no furnaces in the main building. A fire stairwell extends from the top floor to the basement, with exits from each floor and from basement. There are also three stairways. Several fire lines are installed with outlets and hose on each floor to reach any part of the building, and in various other ways the danger from fire is reduced to a minimum. The official inspector has pronounced the building ideal in point of safety. It is heated by the Trane vacuum system of steam heating. Nothing is wanting for the convenience, comfort and health of the students.

The old building is of brick, three stories high, in excellent repair and beautifully located on the northern end of the campus, about two hundred yards from the new one. It is used as an additional dormitory. The rooms are large, well-lighted and comfortable. The building is equipped with electric light, steam heat, hot and cold water shower baths, and all modern conveniences.

LIVING ARRANGEMENTS

All boarding students of the Academy are required to live in one of these buildings.

The principals live in private apartments, one in each dormitory building. The teachers live in the dormitories with the boys.

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In case of slight illness students are placed in the infirmary, fitted for that purpose.

PHYSICAL TRAINING

The school aims to encourage such physical exercise in the gymnasium and on the athletic field as will conduce to the proper development of the student and to the physical condition most favorable to good school work. Students are required to take the drill under the director in the gymnasium regularly during the winter. The Academy boys have their own foot-ball, base-ball, basket-ball and track teams, which are under the direction of their own competent coach and have their own athletic grounds. They have the privilege of using the college athletic field nearby for playing match games. During the fall and spring terms, boys are encouraged to spend all possible spare time on the athletic field, in sports, or in tramping over the beautiful country and visiting the numerous accessible points of interest.

The Academy gymnasium is in the basement of the new building. The room has nearly 3,000 feet of clear space, a fifteen-foot ceiling and ten windows. This affords ample space, light and air for the usual class drills and for practice with the simple equipment of the average gymnasium. Next to the gymnasium are two large locker rooms, with a metal locker for every boy. Adjoining the locker rooms is a toilet and bath room with a number of hot and cold water shower baths. Members of all teams, after practice on the athletic field, are required to enter the building by the basement entrance, change clothes and take a shower bath before going to the upper part of the building.

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LIBRARIES AND READING ROOMS

The reading room of the Academy, with about thirty of the best papers and magazines, is always open to students except during recitation and study hours. Academy students also have access to the reading room of the college, which receives over one hundred of the best papers and magazines of this country, together with a number of the leading foreign reviews. The college library and the libraries of the literary societies, within five minutes' walk of the school, aggregating about 50,000 volumes, are open to Academy students without any charge. In these respects, the school affords exceptional advantages for college preparatory students.

LITERARY SOCIETIES

Every boarding student is required to be a member of either the Franklin Literary Society or the Marshall Literary Society. The meetings are conducted by the students, so as to make them acquainted with the rules which hold in deliberative assemblies, but the exercises are under the direction of certain members of the faculty, who are always in attendance, so as to insure careful work and definite results.

There is an annual inter-society debate and a permanent record of the result is made every year on a tablet, which is placed on the walls of the reading room. A second annual contest is held to determine the merits of the individual debaters. A first prize of $15 is given to the best debater, and a second prize of $10 to the second best.

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RELIGIOUS MEETINGS

All students, unless excused at the written request of parents, attend prayers in the Academy chapel every morning before the work of the day is begun.

All students except those of other than Protestant denominations, are required to attend Sunday morning worship in the College Chapel with the college congregation. At the written request of parents, students who are members of other than Protestant denominations may attend the church of their own faith in the city.

One Sunday morning each month and every Sunday evening students are permitted, upon request at the office, to attend any church in the city, preferably one of their own faith. Each student reports at the office on returning after any service.

A Young Men's Christian Association is maintained by the student body. Meetings, in charge of the boys, are held every Wednesday evening, which are usually addressed by several of the boys, by some member of the faculty or by some one else secured for the purpose.

ACADEMY AND COLLEGE

The proximity of the Academy to a classical college secures to the students a literary atmosphere and the benefits of numerous literary exercises, debates, lectures, etc., which only such a college community can afford. The Academy is sufficiently separated from the College to avoid the intimate association and intercourse of college and academy students, which is often found objectionable at institutions where these two classes are constantly thrown together.

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GRADUATION

A student of the school who has satisfactorily completed the work of any regular course of study, is eligible for graduation with the award of the school's diploma. A student who has not completed a full course may receive a certificate of credit for such work as he has satisfactorily passed. The diploma is accepted in lieu of examination for entrance to Franklin and Marshall College.

SPECIAL CLASSES

Young men who teach during the winter may come to the Academy to do college preparatory work in the spring term. These are frequently young men of more than average ability and maturity, who desire work in a few subjects only. For these students, special classes are organized every spring term. This enables them to enter the school and work to better advantage than if they were to enter the regular classes.

SUMMER TERM

For students who have deficiencies to make up, and for any others desiring work in the line of college preparation, a summer term of six weeks is offered. The work of this term is so arranged that students who desire only one or two subjects have opportunity to cover any amount of ground justified by their ability and industry. The tuition for the six weeks is fifteen dollars. The room and board, which students procure for themselves during this term at private or boarding houses near the school, cost from four to four and a half dollars per

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week. The summer term of 1911 will open Monday, June 19.

EXPENSES

Tuition, boarding, furnished room with light and heat, washing and hospital fee, per school year, $300 and $350.

Tuition for day students, per school year, $75.

There are no extra expenses except for books and a $3 diploma fee upon graduation.

A separate catalogue of Franklin and Marshall Academy, giving full particulars of the courses and regulations, will be sent on application.

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REGISTER OF COLLEGE STUDENTS

Students whose names are marked thus * have not been regular in their respective classes since June, 1910.

Graduate Students

Adam Ray Ackerman, A.B. (1908)	Easton, Pa.
Robert Arthur Beyer, A.B. (1904),	Lancaster, Pa.
Thomas Jacob Bright, A. B. (1903),	Bremerton, Wash.
Calvin Austin Brown, A. B. (1903),	Mercersburg, Pa.
George Charles Clever, A. B. (1903),	Shippensburg, Pa.
Henry Snyder Gehman, A. B. (1909),	Paradise, Pa.
Alfred Jasper Herman, A. B. (1903),	Mainville, Pa.
John Nevin Land, A. B. (1907),	Wyomissing, Pa.
William Lawson Machmer, A. B. (1907),	Lancaster, Pa.
Cyrus Cleveland Meyer, A. B. (1908),	Washington, Pa.
Edwin Allen Nace, A. B. (1904),	Lancaster, Pa.
John Guise Rossman, A. B. (1908),	Spring Mills, Pa.
Frederick Augustus Rupley, A. B. (1888),	Lancaster, Pa.
Isaac Shirk Simons, A. B. (1909),	Lehighton, Pa.
Levi Nevin Wilson, A. B. (1903),	Hiawatha, Kan.

Senior Class

A. B. Course

Jeremiah Paul Adam, 405 West Lemon Street.	Virginville, Pa.
Robert Moser Adam, 405 West Lemon Street.	Temple, Pa.
James Louis Brant 534 West James Street.	Friedens, Pa.
Eugene Peyton Deatrick, 503 West James Street.	Kutztown, Pa.
David Dunn, 351 North Charlotte Street.	Huntingdon, Pa.
Donald Rogers Gardner, 204 East King Street.	York Springs, Pa.
Harold Rau Geisenberger, 651 West Chestnut Street.	Lancaster, Pa.
Christian Risser Gingrich, 415 West James Street.	Lawn, Pa.

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Cyrus Tobias Glessner, 534 West James Street.	Berlin, Pa., R. D., 1.
Frederick Marshall Grove, 419 North Charlotte Street.	Turtle Creek, Pa.
George Benjamin Hamm, 517 Lancaster Ave.	Allentown, Pa.
George Nevin Hartman, 437 West James Street.	Littlestown, Pa.
Edward Hoch Heffner, 433 North Charlotte Street.	Dryville, Pa.
Benjamin Brubaker Herr, Lancaster, Pa.	Lancaster, Pa., R. D. 1.
William Edwin Hoy, 401 North Charlotte Street.	Yochow, Hunan, China.
George Neiman Kemp, 415 West James Street.	East Stroudsburg, Pa.
William Kistler Klingaman, 509 West James Street.	Jacksonville, Pa.
David Berto Kraybill, 351 North Charlotte Street.	Maytown, Pa.
Hiram Swarr Kremer,* 402 West James Street.	Harrisburg, Pa.
David Myers Landis, Lancaster, Pa.	Lancaster, Pa., R. D. 7.
Leonard Llewellyn Leh, 351 North Charlotte Street.	Coplay, Pa.
Nicholas Pattison Luckenbill, 443 Nevin Street.	Virginville, Pa., R. D. 1.
Samuel Marion Neagley, F. and M. Academy.	Millersburg, Pa.
Joseph William Richards, College Campus.	Lancaster, Pa.
Wallace Lehr Robinson, 420 North Queen Street.	Lancaster, Pa.
Edgar Franklin Romig, 558 West James Street.	Allentown, Pa.
Orford Ural Schaeffer, 509 West James Street.	Saylorsburg, Pa., R. D. 1.
Walter Groff Schwab, 842 Prangley Ave.	Lancaster, Pa.
Howard Scott Spahn, 402 West Lemon Street.	Spangsville, Pa.

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Paul DeWitt Turner,* 711 North Duke Street.	Lancaster, Pa.
Elliot Critchfield Weller, 534 West James Street.	Gebhart, Pa.
Howard James Yeager, 509 West James Street.	Monterey, Pa.

Ph. B. Course

Guy Dillman Bomberger, 402 West Lemon Street.	Lititz, Pa.
John Kryder Evans, 536 West James Street.	Hawthorne, Pa.
William Freeman Hoffman, 433 North Charlotte Street.	Scottdale, Pa.
William Edwin Keefer, 408 North Queen Street.	Lancaster, Pa.
George Harold Kinard, Leacock, Pa.	Leacock, Pa.
Jesse Franklin Leonard, 536 West James Street.	Marysville, Pa.
Herbert Mumma LeVan, 437 West James Street.	Penbrook, Pa.
Thomas Christian Peightal, 560 West James Street.	Altoona, Pa.
Henry Weber Pifer, 536 West James Street.	Punxsutawney, Pa.
Owen Webster Saylor, 415 West James Street.	Johnstown, Pa.
Henry Clinton Seitz, 357 North Charlotte Street.	Glen Rock, Pa.
Wallace Goldey Wade, 725 North Duke Street.	Lancaster, Pa.
Enos Alderfer Wampole, 607 West Lemon Street.	Harleysville, Pa.
John Leonard Warfel, 310 North Lime Street.	Lancaster, Pa.

Special

Lauriston Benjamin Herr,* 604 West James Street.	Lancaster. Pa

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Charles Albert Peterson, 339 Nevin Street.	Lancaster, Pa.
Irving Charles Rhodes, 231 East Clay Street.	Lancaster, Pa.
Harry Landis Stehman, Rohrerstown, Pa.	Rohrerstown, Pa.
William Austin Kreider, 437 West James Street.	Rawlinsville, Pa.
Darwin Wertz Noll,* Mountville, Pa.	Mountville, Pa.

JUNIOR CLASS

A. B. Course

Howard Ellwood Ammerman, 413 Charlotte Street.	Shamokin, Pa.
Calvin George Bachman, 402 West Lemon Street.	Lynnport, Pa.
Henry Miller Bassler, 144 East James Street.	Lancaster, Pa.
Clarence Edward Batschelet, 501 West James St.	Lock Haven, Pa.
Philip Henry Bridenbaugh, 560 West James Street.	Martinsburg, Pa.
Walter Patterson Cassel,* Marietta, Pa.	Marietta, Pa.
Henry Earle DeHaven, 560 West Lemon Street.	Salisbury, Pa.
Guy Linton Diffenbaugh, Lancaster, Pa.	Lancaster, Pa., R. D. 6.
James Heber Dorman, 357 North Charlotte St.	Lewistown, Pa.
John Richard Hahn, 536 West James Street.	Reading, Pa.
Robert Reiff Hartzell, 547 West Lemon Street.	South Perkasie, Pa.
Russell Lowell L. Hunter, Ephrata, Pa.	Ephrata, Pa.
Victor Herbert Jones, 509 West James Street.	Shanksville, Pa.
William Raymond Jones, 351 North Charlotte Street.	Shanksville, Pa.

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Jacob Franklin Kauffman, 417 North Charlotte Street.	Ridgely, Md.
Joseph Iddings Lauffer, 607 West Lemon Street.	Irwin, Pa.
John Gabriel Long, 604 East Chestnut Street.	Lancaster, Pa.
Grover Cleveland Maus, 517 West James Street.	Taneytown, Md., R. D. 1.
Harrison Irving C. Miller, 517 West James Street.	Glencoe, Pa.
Harvey Joseph Miller, 509 West James Street.	Topton, Pa.
Oliver Eugene Mosser,* 402 West Lemon Street.	Neffs, Pa.
Paul Reid Pontius, 413 North Charlotte Street.	Butler, Pa.
Homer Franklin Rebert, 534 West James Street.	Littlestown, Pa.
Adam Frederick Rentz, 351 Charlotte Street.	Wyomissing, Pa.
Lloyd Ferner Rumbaugh, 560 West James Street.	Mt. Pleasant, Pa.
Paul Franklin Schaffner, 437 West James Street.	Hummelstown, Pa.
Charles William W. Schantz, 534 West James Street.	Allentown, Pa.
Robert Paul Schearrer, 437 West James Street.	Reading, Pa.
Harry Garfield Sensinger, 509 West James Street.	Lehighton, Pa.
James Ray Shepley, 29 East James Street.	Harrisburg, Pa.
Charles Edwin Sohl, 828 West Lemon Street.	Lancaster, Pa.
William Allen Sohl, 828 West Lemon Street.	Lancaster, Pa.
Earl Landis Stehman, Rohrerstown, Pa.	Rohrerstown, Pa.
Jacob Neuhauser Troyer,* Bird-in-Hand, Pa.	Bird-in-Hand, Pa.
David Jacob Wetzel, F. and M. Academy.	Beavertown, Pa.

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Raymond Evers Whitmore, Millersville, Pa.	Millersville, Pa.
Harry Zell, New Holland, Pa.	New Holland, Pa.

Ph. B. Course.

Merle Meredith Alexander, 351 North Charlotte Street.	Naginey, Pa.
Edwin H. Aston, 560 North Queen Street.	Lancaster, Pa.
Harry Augustus Aukamp,* 108 East Vine Street.	Lancaster, Pa.
Charles Hershy Burns, 244 East Orange Street.	Lancaster, Pa.
David Clinton Colebaugh, 501 West James Street.	Claysburg, Pa.
Earle Walton Diffenbaugh,* 131 East Clay Street.	Lancaster, Pa.
Rex Bell Hartle, 509 West James Street.	Hagerstown, Md., R. D. 5.
Leigh Peoples Helm, New Providence, Pa.	New Providence, Pa.
Joseph Swift Irwin, 509 West James Street.	Woodstock, Va.
John Leslie Kendig, 138 East Lemon Street.	Lancaster, Pa.
Benjamin Willis Moyer, 546 West Chestnut Street.	Lancaster, Pa.
Arthur Phenegar Mylin, 415 West James Street.	Leaman Place, Pa.
Robert Martin Oberholser, 536 West James Street.	Lionville, Pa.
Bobert Burns Taylor, 622 West Lemon Street.	Reidenbach, Pa.
Clyde Eugene Thomas, 419 North Charlotte Street.	Adamstown, Md.
Allen Billyeu Wallace, 241 East Orange Street.	Lancaster, Pa.
Charles Henry Wehler, 534 West James Street.	Hanover, Pa.
William Edwin Weisgerber, 502 West James Street.	Luthersburg, Pa.

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Frank Pattison Werner, Orwigsburg, Pa.
558 West James Street.
Herbert Ralph Werner, Orwigsburg, Pa.
625 West Lemon Street.
Leo Addison Wolfe,* Maytown, Pa.
560 West James Street.
Clayton Clark Witmer, Mt. Joy, Pa.
351 North Charlotte Street.

Special

Walter Randolph Clark* Richland Center, Pa.
553 West Lemon Street.
Robert North Burkholder, Reading, Pa.
437 West James Street.
Howard Emerson Gayley, Howe, Pa.
433 North Charlotte Street.
Christian Maurice Hershey, Gordonville, Pa.
Gordonville, Pa
Roy Leslie Lewis, Rosenhayn, N. J.
502 West James Street.
Harold Attig Miller,* Harrisburg, Pa.
341 Nevin Street.
Frank Kling Troutwine, Tyrone, Pa.
437 West James Street.

SOPHOMORE CLASS

A. B. Course

Ross Edgar Benchoff, Clearfield, Pa.
433 North Charlotte Street.
Louis Birinyi, Damak, U. P. Hangacs, Hungary.
F. and M. Academy.
Howard Minnich M. Bowman, Lancaster, Pa.
740 Chester Avenue.
Moses H. Brackbill, Lancaster, Pa.
520 South Shippen Street.
Owen Peterson Bricker, Lancaster, Pa.
311 North Duke Street.
Raymond Michael Bright, Bernville, Pa.
351 North Charlotte Street.
Harry Jacob Donat, Wanamakers, Pa.
443 Nevin Street.
John Andrew Frantz, Lancaster, Pa.
321 East King Street.

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Austin Leonard Grove, 357 North Charlotte Street.	Glen Rock, Pa.
Ralph Ellis Hartman, 437 West James Street.	Littlestown, Pa.
John Jacob Hess, Gap, Pa.	Gap, Pa.
Elmer Rhodes Hoke, 303 West Lemon Street.	Newark, N. J.
John Hunt, 606 West Walnut Street.	Riegelsville, Pa.
J. Egbert Imler, 502 West James St.	Osterburg, Pa.
Clayton Grant Keller, 304 West James Street.	East Prospect, Pa.
Estes Bilger Landis, 534 West James Street.	Tylersport, Pa.
Paul Nissley Landis, 503 West James Street.	Womelsdorf, Pa.
Charles de LeFond, 441 Pine Street.	Baltimore, Md.
Simon Lehman, Willow Street, Pa.	Willow Street, Pa.
William Erdman Montgomery,* 415 West James Street.	Chambersburg, Pa.
Edward Louis Nolting, 437 West James Street.	Columbia, Pa.
John Carl Opper,*	Baltimore, Md.
William Martin Roberts, 560 West James Street.	Altoona, Pa.
Edwin Blaine Romig, 536 West James Street.	Reading, Pa.
Jeremiah R. Rothermel, 509 West James Street.	Fleetwood, Pa.
Homer Bauman Saul, 534 West James Street.	Delmont, Pa.
Ara Alva Schaeffer,* 660 West Walnut Street.	Kunkletown, Pa.
Frank Slough Schwartz, 536 West James Street.	Hagerstown, Md.
Louis Malone Smith, 419 North Charlotte Street.	Derry, Pa.

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Charles Wesley Speicher, 443 Nevin Street.	Reading, Pa.
Paul Jay Sykes, 437 West James Street.	Cardston, Alberta, Canada.
Paul Conner Wagner, 536 West James Street.	Reading, Pa.
Floyd D. Weaver, 436 North Pine Street.	Liberty, Pa.
Joseph Buch Wissler, Lititz, Pa.	Lititz, Pa.
Thomas Johnston Marshall, 339 Nevin Street.	Lebanon, Pa.

Ph. B. Course

George Elder Brinton, 534 West James Street.	Oxford, Pa.
Jacob Clark Henneberger, 560 West James Street.	Greencastle, Pa.
Tobias Leonard Jaeger, 437 West James Street.	Dubuque, Iowa.
Raymond Bitzer Leinbach, 501 West James Street.	Reading, Pa.
Louis Jacob Livingood, 560 West James Street.	Womelsdorf, Pa.
Ralph Henderson Maclay, 351 North Charlotte Street.	Belleville, Pa.
Robert Barr Maclay, 351 North Charlotte Street.	Belleville, Pa.
George Williard Metger, 437 West James Street.	Frostburg, Md.
Ralph Lewis Reber, 437 West James Street.	Reading, Pa.
James Stuart Seitz, 351 North Charlotte Street.	Glen Rock, Pa.
John Harold Stein, 234 North Duke Street.	Kutztown, Pa.
Mark Emerson Stine, 415 West James Street.	Elizabethville, Pa.
Hiram Grant Straub, 606 West Walnut Street.	Minersville, Pa.
Cyrus Aaron Weisgerber, 502 West James Street.	Luthersburg, Pa.

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Special

Harry Delmo Cox* 560 West James Street.	New York, N. Y.
Charles Snyder Phillippi, 622 West James Street.	Confluence, Pa.
Robert Beatty Saxman, 509 West James Street.	Latrobe, Pa.
Benjamin N. Shaub, 246 East Orange Street.	Lancaster, Pa.
Lee Cephas Thomas,* 441 Pine Street.	Adamstown, Md.
Robert Sanford Tussey, * 560 West James Street.	Waterstreet, Pa.

FRESHMAN CLASS

A.B. Course

Charles M. Ackerman, 622 West Lemon Street.	Washington, D. C.
Nevin Macauley Biser, 529 North Mary Street.	Frederick, Md.
Henry Newpher Bowman, 42 West End Avenue.	Lancaster, Pa.
Ralph Kline Bowman, 509 West James Street.	Woodstock, Va.
Charles Warren Brewbaker, 517 Lancaster Avenue.	State Line, Pa.
Herman Daniel Deihl, 418 North Charlotte Street.	Bloomsburg, Pa.
Claude Octavius Dierolf, 639 Chester Avenue.	Lancaster, Pa.
Henry Arthur Fox, 517 Lancaster Avenue.	Danboro, Pa.
Frank Preston Fravel, 509 West James Street.	Toms Brook, Va.
Percy Hoffer Gabel, 722 North Lime Street.	Lancaster, Pa.
Edward Townsend Hager, Columbia Avenue.	Lancaster, Pa.
Robert McCulley Halbach, 804 Manor Street.	Lancaster, Pa.
William Oscar Heckman, 435 North Charlotte Street.	Tusseyville, Pa.

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Earle Russell Herbert, 558 West James Street.	Nanticoke, Pa.
Amos Henry Hersh, 414 Freiberg Street.	Lancaster, Pa.
Foster Calvin Hillegass, 415 West James Street.	Pennsburg, Pa.
Fred. Hoffman, 536 West James Street.	Easton, Pa.
Benjamin Harrison Hoober, 406 North Lime Street.	Lancaster, Pa.
Jay Forney Hostetter, 409 West James Street.	Lancaster, Pa.
Herbert King Kendig, 534 West James Street.	York, Pa.
John K. White Kramer, 828 West Lemon Street.	Hyndman, Pa.
Harold Barton Kreider, Witmer, Pa.	Witmer, Pa.
Paul Irving Kuntz, 339 Nevin Street.	York, Pa.
Reuben Edwin Kutz, 549 North Pine Street.	Summit Hill, Pa.
Anson E. Laufer, 509 West James Street.	Broadheadsville, Pa.
Samuel Edwin Lobach, 402 West Lemon Street.	Tamaqua, Pa.
George Albert Moore, 216 Reservoir Street.	Lancaster, Pa.
William Edward Muth, 620 West Lemon Street.	Northampton, Pa.
George Henry Otthofer, 451 North Queen Street.	Lancaster, Pa.
Willard Merritt Porterfield, Jr., 737 Marietta Avenue.	Lancaster, Pa.
Harry Lyman Raub, Jr., Marietta Ave.	Lancaster, Pa.
Paul Herbert Reigner, 415 West James Street.	Reading, Pa.
Howard Lester Sassaman, 620 West Lemon Street.	Hummelstown, Pa.
Alfred Nevin Sayres, 427 South Queen Street.	Lancaster, Pa.

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Herbert Alfred Schaffner, 437 West James Street.	Hummelstown, Pa.
Harvey Arthur Smith, 509 West James Street.	Broadheadsville, Pa.
Caulder Charles Stewart, 436 Lancaster Avenue.	Lebanon, Pa.
Bertram Stuart Walker, 534 West James Street.	Berlin, Pa.
Alvin Roy Frey Weaver, 428 Lancaster Ave.	Rothsville, Pa.
David Wenger Weber, 414 North Charlotte Street.	New Holland, Pa.
John Wade Wimer, 437 West James Street.	Quarryville, Pa.
Henry Higbee Worthington, 242 North Charlotte Street.	Lancaster, Pa.

Ph. B. Course

Guy Anderson Benchoff, 433 North Charlotte Street.	Clearfield, Pa.
Paul Hamilton Bletz, Jr., Mountville, Pa.	Mountville, Pa.
James Herbert Egan, 139 North Shippen Street.	Lancaster, Pa.
William Edgar Griffith, 437 West James Street.	Imler, Pa.
Hiram Peoples Helm, F. and M. Academy.	Bart, Pa.
John LeRue Hess, 549 Pine Street.	Duncannon, Pa.
C. Wade Jones, 351 North Charlotte Street.	Oshkosh, Wis.
Walter LeRoy Kalbach, 415 West James Street.	Reading, Pa.
Kelvin K. Keech, F. and M. Academy.	Oahu, Hawaii.
Harold Guy Kittelman, 517 Lancaster Avenue.	Quakertown, Pa.
Edwin Morgan Krecker, 133 Pearl Street.	Lancaster, Pa.
William Michael Loy, 417 North Charlotte Street.	Trexler, Pa.

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William Henry Masenheimer, 602 West James Street.	Manchester, Md.
Donald Mitchell Mylin, Leaman Place, Pa.	Leaman Place, Pa.
Robert Wendell Owens, 560 West James Street.	Tyrone, Pa.
John Landis Reist, 437 West James Street.	Lancaster, Pa.
Harold K. Robison, 536 West James Street.	Harrisburg, Pa.
John Calvin Saylor, 415 West James Street.	Johnstown, Pa.
John Brown Snyder, 418 West James Street.	Reading, Pa.
Ralph Stanley Weiler, Terre Hill, Pa.	Terre Hill, Pa.
Chester Burton Wray, 548 West Walnut Street.	Altoona, Pa.
Solomon Filmore Pontius, 413 North Charlotte Street.	Butler, Pa.
Ray Albert Ruppert, 558 West James Street.	Reading, Pa.

Special.

Paul Jerome Bowman, F. and M. Academy.	Pillow, Pa.
J. Earl Buch, Elizabethtown, Pa.	Elizabethtown, Pa.
J. Floyd Buzzard, 536 West James Street.	Stroudsburg, Pa.
George L. Cassel, Marietta, Pa.	Marietta, Pa.
Tunis Bogart Davis, 536 West James Street.	Port Washington, N. Y.
H. G. Hassenplug, 728 East King Street.	Lancaster, Pa.
A. Fay Lichty, 534 West James Street.	Elk Lick, Pa.
Joseph Edward Marquette, 422 West James Street.	Binghamton, N. Y.
James Hiestand Staman, Washingtonboro, Pa.	Washington Boro, Pa.
Henry Joseph Strickler, Lancaster, Pa.	Lancaster, Pa., R. D., 7.

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REGISTER OF ACADEMY STUDENTS

Charles Mellinger Ackerman,[1]	Washington, D. C.
Carl Franklin Adams,	Lancaster, Pa.
Alva Penrose Ambler,	Fulton House, Pa.
Levis Ambler,[3]	Drumore, Pa.
Paul Fred Anewalt,	Allentown, Pa.
Kenneth Ellmaker Appel,	Lancaster, Pa.
Harmodio Arosemena,	Panama, Repub. of Panama
Daniel Aungst,[2]	Landisville, Pa.
Paul Baker	Landisville, Pa.
Samuel Walter Bally,	Lancaster, Pa.
George Philip Bard,	Leacock, Pa.
Samuel Shenk Bard,	East Petersburg, Pa.
Richard Hersh Barr,	Lancaster, Pa.
Franklin Warren Bausman,	Bausman P. O., Pa.
John Myers Bausman,	Bausman P. O., Pa.
Carl Fred Bell,	Philadelphia, Pa.
John Richard Bender,	Lititz, Pa.
Edward Henry Berger,	Lancaster, Pa.
Daniel Luke Biemensderfer,	Kissel Hill, Pa.
Edgar Charles Bleiler,	Frackville, Pa.
Paul Hamilton Bletz,[1]	Mountville, Pa.
John Milton Bowman,	Mt. Joy, Pa.
Paul Jerome Bowman,[1]	Pillow, Pa.
John Gordon Brant,	Friedens, Pa.
Park Smith Brant,	Friedens, Pa.
Lloyd Homer Bressler,	Hegins, Pa.
Charles Warren Brewbaker,[1]	State Line, Pa.
John Raymond Bridenbaugh,	Union Furnace, Pa.
Franklin Krauskop Brinkman,	Lancaster, Pa.
Valentine Brobst,	Lititz, Pa.
Arthur Ellis Brown,	Nottingham, Pa.
Jacob Hay Brown,	Lancaster, Pa.
Jasper Roger Brown,	Esterly, Pa.

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George Davenport Browne,	Lancaster, Pa.
Carl Hess Brubaker,	Columbia, Pa.
Park Bryson,	Paradise, Pa.
Harold Follmer Bucher,	Watsontown, Pa.
David Hiram Bucks,[1]	Leola, Pa.
Paul Ebersole Burkholder,	Elizabethtown, Pa.
William Robert Burns,	Lancaster, Pa.
John Hershey Byerly,	Millersville, Pa.
William Carlisle,	New Washington, Pa.
Harry Geistweit Carpenter,	Mt. Joy, Pa.
George Lincoln Cassel,	Marietta, Pa.
Clyde Hurst Chalfant,	Lenover, Pa.
Frank Chamberlain,	Philadelphia, Pa.
Harold Way Clark,	Belhaven, N. C.
John Franklin Cochran,	Lancaster, Pa.
William McDowell Colvin,	Shellburg, Pa.
William Franklin Cooper,	Lancaster, Pa.
William Augustus Craig,	Scotland, Pa.
Charles Cecil Crawford,[6]	New York, N. Y.
John Graybill Crawford,	Mifflintown, Pa.
Fred. Beates Crumbaugh,	Lancaster, Pa.
Charles Earl Dailey,	Lancaster, Pa.
Benjamin Franklin Davis,	Lancaster, Pa.
Tunis Bogart Davis,[1]	Port Washington, N. Y.
Warren McAllister Deacon,	Mt. Joy, Pa.
Jean Elbert de Tamble,	New York, N. Y.
Donald Albert de Tamble,	New York, N. Y.
Paul Allen de Tamble,	New York, N. Y.
Frank Ludwig Diefenderfer,	Reading, Pa.
Herbert Esbenshade Diller,	Leaman Place, Pa.
Samuel William Diller, Jr.,	Lancaster, Pa.
Paul Stoner Donecker,	Lancaster, Pa.
Joseph Wilbur Eberly,	York, Pa.
Thomas Carl Eichelberger,	Everett, Pa.
Guy Faust,	Pottsville, Pa.
Heber Felix,	Schuylkill Haven, Pa.
Charles William Fenstermacher,	Coplay, Pa.

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Joseph Fillinger,	Lancaster, Pa.
Frederic Steinman Foltz,	Lancaster, Pa.
Frank McLaughlin Forstburg,	Media, Pa.
Robert Belinius Forstburg,	Media, Pa.
Henry Arthur Fox,[1]	Danboro, Pa.
Paul Nathan Fox,	New Bloomfield, Pa.
David Herr Frantz,	Lancaster, Pa.
Elton Adam Frauenfelder,	Hamburg, Pa.
Charles Haverstick Frey, Jr.,	Lancaster, Pa.
Jacob Ruth Fry,	Ephrata, Pa.
Dan Fulkerson,	Tyrone, Pa.
Henry Culbertson Fulton,[5]	High Rock, Pa.
Percy Hoffer Gabel,[1]	Lancaster, Pa.
Paul Remington Garrison,	Columbia, Pa.
Farrell Garvey,	Lancaster, Pa.
Thomas Billroth Garvey,	Lancaster, Pa.
Donald Alexander Gerz,	Lancaster, Pa.
Chester Bell Gillam,	Huntingdon, Pa.
Benjamin Brown Glick,	Lancaster, Pa.
Clarence Herr Gochnauer,	Lancaster, Pa.
Benjamin Good, Jr.,	Lancaster, Pa.
Frank Gould,[3]	Mt. Carmel, Pa.
Emerson Guy Greenawalt,	Lehmaster, Pa.
William Edgar Griffith,[1]	Imler, Pa.
Lawrence Wesley Grove,	Huntingdon, Pa.
Mark Gruel,	Lancaster, Pa.
John Shank Habecker,	Rohrerstown, Pa.
Edward Townsend Hager,[1]	Lancaster, Pa.
William Henderson Hager,	Lancaster, Pa.
George DeHuff Hall,	Columbia, Pa.
Ray Baker Hall,	Lancastr, Pa.
Jerre Brown Hambleton,	Wakefield, Pa.
William Allen Hammond,	New Holland, Pa.
Robin Harrison,	Clarksburg, W. Va.
Andor Adam Harsanyi,	Homestead, Pa.
Allen Stewart Hartman,	Littlestown, Pa.
Elmer Benjamin Hartline,	Saegersville, Pa.

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Percy Clifton Hartzell,	Welty, Pa.
Percy Bysshe Heilig,	Mt. Joy, Pa.
Ferdinand Heine,	Lancaster, Pa.
Norman Earl Helff,	Hummelstown, Pa.
Hiram Peoples Helm,[1]	Bart, Pa.
Paul Victor Helm,	Mechanics Grove, Pa.
Edward Herr,	Shamokin, Pa.
Edgar Garber Hess,	Lancaster, Pa.
Henry Lloyd Hess,	Lancaster, Pa.
William Jackson Hess,	Quarryville, Pa.
Fred. Louis Hock,	Cressona, Pa.
Aaron Hoffmaster,	Millersville, Pa.
Walter Lee Hoke,	Walkersville, Md.
Jacob Reah Hollinger,	Lancaster, Pa.
John Hertzler Hollinger,	Hollinger, Pa.
Charles Henry Holzinger,	Refton, Pa.
Harry Benjamin Hostetter,	Lancaster, Pa.
Karl Musser Houser,	Pennsylvania Furnace, Pa.
Roland Rollman Houser,	Lancaster, Pa.
Ellis Daniel Hunter,	Reading, Pa.
Harold Adam Hutt,	Philadelphia, Pa.
Henry Snyder Illingworth,	Marietta, Pa.
Edmund Burwell Ilyus,	Lancaster, Pa.
Edgar Stambaugh Imler,	Osterburg, Pa.
Llewellyn Leicester Iobst,[4]	Freemansburg, Pa.
Ralph Elmer Jerrell,	Bridgeton, N. J.
Raymond Shirk Johns,	Lancaster, Pa.
Clifford Chapman Johnson,	Butler, Pa.
James Newell Johnson,	Narberth, Pa.
Charles Wade Jones,[1]	Oshkosh, Wis.
Irwin Kauffman,	Manheim, Pa.
Kelvin Kirkwood Keech,[1]	Honolulu, Hawaii.
Ealie Arthur Keen,	Christiana, Pa.
Herbert King Kendig,[1]	York, Pa.
William Kemble,	Philadelphia, Pa.
Arthur Allen Kirk,	Quarryville, Pa.
Harold Gery Kittelman,[1]	Quakertown, Pa.

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Richard Henry Klein,	Lancaster, Pa.
Edmund Keffer Kline,	Lancaster, Pa.
Richard Henry Kline,	Lancaster, Pa.
Ira Leroy Knappenberger,	Emlenton, Pa.
Walter Nevin Knecht,	Mill Hall, Pa.
Aziz Alexander Koorie,	Paterson, N. J.
William Abia Kurtz,	South Hermitage, Pa.
John White Kramer,[1]	Hyndman, Pa.
Harold Kreider,[1]	Witmer, Pa.
Edwin Kutz,[1]	Summit Hill, Pa.
Chauncey Pennock LeFevre,	Quarryville, Pa.
Wilmer Brinton Lefever,	Reading, Pa.
Milton William Leimbach,	Lutherville, Md.
Albert Fay Lichty,[1]	Elk Lick, Pa.
Herbert Littlefield,	Brantford, Ontario.
Lloyd Orlando Loechel,	Elk Lick, Pa.
Irwin Elsworth Long,	Stoyestown, Pa.
Henry Myers Long,	Lancaster, Pa.
William Lowry Lyman,	Upper Montclair, N. J.
Claude Manett,	Lancaster, Pa.
Harry Manett,	Lancaster, Pa.
Albert Warren Martzall,	Junction, Pa.
William Henry Masenheimer,[1]	Manchester, Md.
Richard Martin,	Lancaster, Pa.
Thomas Jacob Mathias,	Manor, Pa.
Joseph Anthony Mattern,	Lancaster, Pa.
William Lloyd McAllister,	West Willow, Pa.
Emmett Karl McClintock,	Tyrone, Pa.
George Mearig,	New Holland, Pa.
Cyrus Hollinger Meminger,	Lancaster, Pa.
Charles Alvin Merrill,	Garrett, Pa.
Daniel Leigh Metzger,	Ronk, Pa.
Robert Rulison Mill,	Baltimore, Md.
Karl Matz Miller,	Lancaster, Pa.
Lorenz William Miller,	Pottsville, Pa.
Caleb Eugene Montgomery,	Lancaster, Pa.
Isaac Montgomery,	Quarryville, Pa.

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Donald Grosh Moyer,	Mountain Sunset, Pa.
Ernest Wickert Moyer,	Perkasie, Pa.
Nevin Moyer,[2]	Perkasie, Pa.
Paul Imboden Moyer,[3]	Campbelltown, Pa.
William Edward Muth,[1]	Northampton, Pa.
Frank Brenner Myers,	Lancaster, Pa.
Ralph Schnader Myers,	Terre Hill, Pa.
Donald Mitchell Mylin,[1]	Leaman Place, Pa.
Edward Everett Mylin,	Leaman Place, Pa.
Luther Neff,	Gordon, Pa.
Rudolph Herr Nissley,	Lancaster, Pa.
James Oliver Newpoer,	Mt. Joy, Pa.
Charles Oster,	Osterburg, Pa.
George Henry Ormrod,	Emaus, Pa.
Robert Wendell Owens,[1]	Tyrone, Pa.
Oliver Phillips,	Ebensburg, Pa.
John Fred Pyfer,	Lancaster, Pa.
Mahlon Ranck,	Lancaster, Pa.
Raymond Arthur Ranck,	Palmyra, Pa.
Harry Raub,[1]	Lancaster, Pa.
Paul de Hoff Reed,	Lancaster, Pa.
John Landis Reist,[1]	Lancaster, Pa.
Hiester Gene Rhawn,	Catawissa, Pa.
Arthur Jacob Rice,	Dallas, Pa.
James William Richey,	Everett, Pa.
Jacob Lloyd Rickert,	Sellersville, Pa.
Harold Kline Robinson,[1]	Harrisburg, Pa.
George Hermann Rohrer,	Lancaster, Pa.
Ralph Reddig Root,[3]	Reamstown, Pa.
Baker Royer,	Ephrata, Pa.
Robert Bartell Rudy,	Lancaster, Pa.
David Besore Rupley,	Lancaster, Pa.
Frederick Augustus Rupley,	Lancaster, Pa.
Harold Ernest Sallade,	Womelsdorf, Pa.
Howard Sassaman,[1]	Hummelstown, Pa.
William Henry Sassaman,	Breinigsville, Pa.
Charles Carroll Sauber,	Lancaster, Pa.

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Herbert Alfred Schaffner,[1]	Hummelstown, Pa
Leon Albert Schaum,	Lancaster, Pa.
Richard Schiedt,	Lancaster, Pa.
Arthur Patterson Schock,	Mt. Joy, Pa.
Charles Edward Schutte,	Lancaster, Pa.
John Fred Sener,	Lancaster, Pa.
Walter Landis Shank,	Lancaster, Pa.
Clarence Edgar Shappell,	Hamburg, Pa.
Henry Adam Shreiner,	Lititz, Pa.
Edward George Shriner,	Frederick, Md.
Charles Alcuin Sides,	Hyndman, Pa.
William Carson Sims,	Lancaster, Pa.
Victor Galen Slifer,	North Wales, Pa.
Charles Archie Smith,	Osterburg, Pa.
Christopher Lawrence Smith	New York, N. Y.
Amos Bowman Snavely,	Lancaster, Pa.
Claude Richmond Stauffer,	Leola, Pa.
Elias Keath Stauffer,	Quarryville, Pa.
Howard Stauffer,	Landisville, Pa.
Clyde Lehr Stillinger,	Mountville, Pa.
George Stoler,	Saxton, Pa.
Harry Shaub Stoner,	Lancaster, Pa.
Clarence Sener Stormfeltz,	Lancaster, Pa.
Christian Albert Stutzman,	Hegins, Pa.
Claude Nelson Terry,	Dividing Creek, N. J.
Mark Thatcher,	Richland Center, Pa.
Daniel Herbert Thompson,	Bridgeton, N. J.
Robert Lee Thornton,	Lancaster, Pa.
Conrad Troll,	St. Clairsville, Ohio.
Alessandro Vasquez,[7]	Panama, Republic of Pan.
Paul Cameron Ward,	Pennsylvania Furnace, Pa.
Marburg Downin Weagley,	Waynesboro, Pa.
Edward Benjamin Weaver,	Lancaster, Pa.
Herbert Bachman Weaver,	Lancaster, Pa.
William Wiley Weaver,	Lancaster, Pa.
David Wenger Weber,[1]	New Holland, Pa.
Ralph Stanley Weiler,[1]	Terre Hill, Pa.

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Samuel Nelson Wheeler,	Grand Junction, Colo.
Simon Peter Whitehead,	Manor, Pa.
David Cleveland Wimer,	Quarryville, Pa.
John Wade Wimer,[1]	Quarryville, Pa.
Warren Wayne Worrest,	Lancaster, Pa.
Earl Brooks Worthington,	Dry Run, Pa.
Raymond Yecker,	Lancaster, Pa.
Clarence Arthur Zimmerman,	Camden, N. J.
Martin Denlinger Zimmerman,	Narvon, Pa.

Total Enrollment, 264.

1 Entered Franklin and Marshall College.
2 Entered Lehigh University.
3 Entered Pennsylvania State College.
4 Entered Lafayette College.
5 Entered Jefferson Medical College.
6 Entered Cornell University.
7 Entered Medico-Chirurgical College.

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SUMMARY

Graduate Students	15
Seniors	46
Juniors	59
Sophomores	49
Freshmen	65
Specials	29
	263
Academy	264
Total	527
Deduct names given twice	30
Total	497

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Franklin and Marshall College

Lancaster, Pennsylvania

The Catalogue

1911-1912

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CATALOGUE

OF

Franklin and Marshall College

LANCASTER, PENNSYLVANIA

1911-1912

LANCASTER, PA.
INTELLIGENCER PRINT
1912

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COLLEGE CALENDAR

1911

Examinations for Entrance.....September 11-12
First semester begins at 10 a. m.....September 14
Thanksgiving Day recess.....Nov. 30–Dec. 2
Christmas vacation begins at 12:20 p. m...Dec. 22

1912

College exercises begin at 9 a. m.....January 9
Semester examinations.....January 22–26
Second semester begins.....January 29
Washington's Birthday—Holiday.....February 22
Easter recess.....April 4–8
Senior examinations .....May 6–10
Anniversary of Goethean Literary Society .May 3
Inter-scholastic Track Meet at 1:30 p. m...May 4
Anniversary of Diagnothian Literary Society .May10
Senior vacation begins .....May 13
Ascension Day—Holiday.....May 16
Baccalaureate Sunday.....June 9
Junior Oratorical Contest at 7:30 p. m. ....June 10
Advisory Council of Alumni at 10 a. m.....June 11
Meeting of the Board of Trustees at 2 p. m..June 11
Class Day exercises at 3 p. m.....June 11
Fraternity and Class Reunions.....June 11
Literary Society reunions at 10 a. m.....June 12
Meeting of the Alumni Association at 11:30 a. m. .....June 12

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COLLEGE CALENDAR

1912

Alumni Luncheon, Campus, at 12:30 p. m. . . June 12
Annual base-ball game, Athletic Field, at 3 p. m. . . . . June 12
Meeting of the Phi Beta Kappa Fraternity at 6:45 p. m. . . . . June 12
Phi Beta Kappa Oration at 7:30 p. m. . . . . June 12
Alumni Banquet at 9 p. m. . . . . June 12
Seventy-sixth Annual Commencement at 9 a. m. . . . . June 13
Summer vacation of thirteen weeks.
Examinations for entrance . . . . . September 9–10
Registration . . . . . September 11
First semester begins at 10 a. m. . . . . September 12
Thanksgiving Day recess . . . . . Nov. 28–30
Christmas vacation begins at 12:20 p. m. . . . . Dec. 20

1913

College exercises begin at 9 a. m. . . . . January 7
Semester examinations . . . . . January 27–31
Second semester begins . . . . . February 3
Washington's Birthday—Holiday . . . . . February 22
Easter recess . . . . . March 20–24
Seventy-seventh Annual Commencement . . . June 12

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BOARD OF TRUSTEES

Elected by the Board

Term Expires.

JAMES SHAND 1912
Lancaster, Pa.

WALTER M. FRANKLIN, ESQ. 1914
Lancaster, Pa.

J. W. B. BAUSMAN, ESQ. 1915
Lancaster, Pa.

WILLIAM H. HAGER 1916
Lancaster, Pa.

MILTON F. BARINGER 1916
Wyncote, Pa.

A. C. KEPLER 1917
Lancaster, Pa.

HON. W. U. HENSEL, LL.D. 1919
Lancaster, Pa.

HENRY S. WILLIAMSON 1920
Lancaster, Pa.

E. T. FRAIM 1921
Lancaster, Pa.

Elected by the Eastern Synod.

GEORGE F. BAER, LL.D. 1912
Reading, Pa.

JARED HARPER 1912
Bellefonte, Pa.

REV. N. C. SCHAEFFER, D.D., LL.D. 1913
Lancaster, Pa.

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REV. JACOB B. KERSCHNER.....1913
Freeland, Pa.

SAMUEL P. HEILMAN, M.D.....1914
Heilmandale, Pa.

B. F. FACKENTHAL, JR.....1915
Riegelsville, Pa.

JOHN D. SKILES.....1915
Lancaster, Pa.

*REV. J. W. SANTEE, D.D.....1917
Philadelphia, Pa.

REV. F. C. SEITZ.....1918
Allentown, Pa.

L. B. KEIPER.....1918
Lancaster, Pa.

JOHN W. BICKEL, ESQ.....1918
Norristown, Pa.

C. C. LEADER.....1919
Shamokin, Pa.

Elected by the Synod of the Potomac

REV. W. C. SCHAEFFER, D.D.....1913
Lancaster, Pa.

WILLIAM J. ZACHARIAS, ESQ.....1917
Chambersburg, Pa.

J. W. WETZEL, ESQ.....1919
Carlisle, Pa.

REV. A. S. WEBER, D.D.....1920
Baltimore, Md.

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* Deceased.

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GEORGE D. ROBB.....1920
Altoona, Pa.

ROBERT L. MOTTER.....1921
York, Pa.

Elected by the Pittsburgh Synod

PAUL C. WOLFF.....1914
Pittsburgh, Pa.

HON. JOHN M. JAMISON.....1916
Greensburg, Pa.

WM. R. BARNHART.....1921
Greensburg, Pa.

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A. C. KEPLER.

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Rev. C. J. Musser, D.D., '78, Philadelphia, Pa.
T. M. Balliet, Ph.D., '76, New York, N. Y.
S. H. Guilford, D.D.S., '61, Philadelphia, Pa.
Rev. L. Kryder Evans, D.D., '64, Pottstown, Pa.

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President of the College; Upon the Geo. F. Baer Foundation.
441 College Avenue.

JOHN SUMMERS STAHR, Ph.D., D.D., LL.D.,
J. W. Nevin Professor of Mental and Moral Science, Æsthetics and the Philosophy of History
445 West James Street.

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445 West Chestnut Street.

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431 West James Street.

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The B. F. Fackenthal, Jr., Professorship of Natural Science (Biology and Geology.)
1043 Wheatland Avenue.

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320 Race Avenue.

CLARENCE NEVIN HELLER, A.M.,
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415 North Charlotte Street.

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548 West James Street.

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563 West Walnut Street.

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Professor of Classics
527 West James Street.

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Professor of English
361 College Avenue.

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Professor of Hygiene and Physical Education
361 College Avenue.

M. W. RAUB, M.D.,
Curator of the Museum
329 N. West End Avenue.

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On Non-Athletic Organizations

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FRANKLIN AND MARSHALL COLLEGE

History and Description

Franklin and Marshall College was formed by the union of two older educational institutions which in their independent existence labored for common ideals and aims and ministered to a common constituency. Franklin College had been maintained in Lancaster, Pa., for forty-five years and Marshall College had thrived for seventeen years in Mercersburg, Pa., when by an act of the Legislature of Pennsylvania they were merged and consolidated under the name of Franklin and Marshall College, to be located in the city of Lancaster, or its immediate vicinity. The effort to enlarge their sphere of usefulness, by joining their means and labors under one organization, enabled them to confer a more extensive benefit upon the citizens of this state, in the promotion of liberal and scientific learning. The wisdom of that act is justified in the rich fruitfulness and illustrious history of Franklin and Marshall College as an aggressive and vigorous institution for the promotion of higher education.

Franklin College

The educational history of this institution runs back to the trying times of the latter part of the eighteenth century. The charter was granted March 10, 1787. When the infant republic was

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being tested in its right to live and its ability to grow, Franklin College was founded in the historic borough of Lancaster. Those who conceived the purpose of this third oldest college in Pennsylvania, and brought her into being were men prominent in the establishment of the nation and concerned with the development of her people. In the necessity of improving the younger generation, that there might be assured a strong American nation, it was especially needful to minister to the educational needs of the large and thrifty but greatly neglected German population of the state. To this end a petition was made to the Legislature of Pennsylvania to establish a German College and Charity School in Lancaster. "From a conviction of the necessity of diffusing knowledge through every part of the state, in order to preserve our present republican system of government, as well as to promote those improvements in the arts and sciences which alone render nations respectable, great and happy," it was asked, that an institution should be established, "to promote an accurate knowledge of the German and English languages, also of the learned languages, of mathematics, morals, and natural philosophy, divinity, and all such other branches of literature as will tend to make good men and useful citizens." Out of "profound respect for the character of his Excellency, the President of the State, her most distinguished citizen" and one of its projectors and liberal patrons, the school was called Franklin College. Among the first trustees were four signers of the Declaration of Independence, seven officers of the War of the Revolution, three who became gov-

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ernors of Pennsylvania, two distinguished jurists, and two who became senators of the United States. Of the ministers, seven were Reformed, seven Lutheran, one Moravian and one Roman Catholic. The specific aim of the college was further emphasized in the preamble of the act of incorporation. The grant was made because "The citizens of this state, of German birth or extraction, have eminently contributed by their industry, economy and public virtues to raise the state to its present happiness and prosperity"—and because of "a desire to increase and perpetuate the blessings derived to them from the possession of property and a free government"—"to train up a succession of youth to fully understand, zealously practice and strenuously defend the republican form of government." The scope of her sphere was thus national in its conception.

Founded in the interest of Germans, it was never intended to be, as it never became, exclusively a German institution, but it served to foster an appreciation of German life and literature and formed an environment in which the sons of Germans might be educated without being alienated from the faith of their fathers. In emphasizing the English course and teaching "all those branches of literature which are usually taught in the colleges of Europe and America" it was a valuable agency to mediate German thought and mould German life into American manhood. Its purpose to give higher learning and liberal culture to the people of the interior of the state was always held firmly in view and in the face of many difficulties in its en-

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vironment, and the lack of adequate financial support it continued a blessed service during the time of its independent existence. Among the first trustees were the Hons. Thomas Mifflin, Thomas McKean, Robert Morris, George Clymer, Benjamin Rush and the Revs. Drs. J. H. C. Helmuth, Casper Weiberg, Henry E. Muhlenberg and William Hendel. Its effective worth may be estimated from the statement of Benjamin Rush, who said of its faculty, "A cluster of more learned or better qualified masters, I believe, I have never met in any university." It included Dr. F. A. Muhlenberg, the botanist, Dr. Frederick Valentine Melsheimer, "the father of American entomology," and James Ross, author of a Latin and a Greek Grammar, and "one of the foremost classical scholars of America."

MARSHALL COLLEGE

A classical institution aiming to give an adequate training to those preparing for the ministry of the German Reformed Church was proposed prior to the year 1829 and in 1831 such a school was started at York, Pa. It was firmly established in 1833 when Dr. F. A. Rauch was placed in charge. In 1835 the name was changed to the "High School of the Reformed Church" and in the fall of the same year was removed to Mercersburg, the little village in the mountains, destined to become famous as the seat of "Mercersburg Theology." On the thirty-first day of March, 1836, the Legislature of Pennsylvania enacted "that the high school of the German Reformed Church, located at Mercersburg,

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in the county of Franklin, be and hereby is erected into a college, for the education of youth in the learned languages, the arts, sciences and useful literature." It was named after the eminent Chief Justice of the United States, "in testimony of respect for the exalted character, great worth, and high mental attainments of the late John Marshall." While owing its origin to a zeal on the part of a religious denomination, it soon broadened its sphere and enlarged its course to meet the needs and serve the wants of those seeking a liberal education to prepare for the profession of law and medicine or enter a business career. It had a choice coterie of professors, men of large vision and distinguished scholarship. Here it was that Dr. Frederick Augustus Rauch, fresh from the German University and in the full vigor of young manhood, produced his pioneer work on psychology and blended German philosophy with American thought. Here the giant theologian, Dr. John Williamson Nevin, taught and wrote, and by the vigor and richness of his works claimed attention from scholars of Europe as well as America. Associated with them were Dr. Philip Schaff, one of the foremost church historians of this country; Dr. Henry Harbaugh, the versatile poet preacher; the brilliant Dr. E. E. Higbee, who later filled a most successful administration as Superintendent of Public Schools of Pennsylvania; and the distinguished botanist and voluminous writer, Dr. Thomas C. Porter, the learned scientist, Dr. Traill Green, with Dr. William Marvel Nevin in the chair of English Literature. This faculty, worthy of any university,

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laid broad and deep the foundation of a true college. Their liberal educational views, profound Christian scholarship and high culture not only moulded students in personal contact but gave inspiration and enthusiasm to education generally. Marshall College is the main source of the present institution, and its history presents ideals which in their simple dignity are worthy of our constant imitation.

FRANKLIN AND MARSHALL COLLEGE

Neither Franklin College nor Marshall College was able to accomplish in full measure the purpose for which it had been established, and both were looking for means to enlarge the scope of their work. As the result of mutual overtures they were united under a new charter, and Marshall College was removed to Lancaster in the spring of 1853 to carry the union into effect. The formal opening took place on June 7, 1853. The charter granted on April 19, 1850, empowers the College to grant "such degrees in the arts and sciences or other useful learning as have been usually granted in other colleges or universities in America or Europe."

Under the successful guidance of efficient presidents the College grew and prospered and furnished a remarkable history which bestows upon this age a rich and glorious heritage. In successive years her faculty and students increased, her campus was enlarged and her course strengthened and enriched. The proper course of historical development and the solidarity of her educational system has been preserved. The broad, liberal spirit which characterized Franklin College and the profound philos-

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ophy and Christian culture peculiar to Marshall College are united in the facilities and purposes of her thorough educational system in preparation for professional and technical training, as for all the duties of life.

The College bases its claim for patronage and support on the advantages which it offers for obtaining a thorough liberal education. The curriculum is adapted to afford training for culture and discipline and aims at thorough instruction, harmonious development and the formation of sound character. The studies are so arranged that the students, in their entire course, come in contact with the regular professors—men of ability, experience and enthusiasm in their respective departments—and receive in this way not only the highest measure of personal attention, but also the inspiration which the genuine scholar and teacher, by personal influence, always communicates.

The College is under the ownership and general control of a board of trustees, thirty in number, to be held in trust for the Eastern Synod, the Pittsburg Synod, and the Synod of the Potomac of the Reformed Church in the United States. The Eastern Synod elects twelve, the Pittsburg Synod three and the Synod of the Potomac six members of the board for a period of ten years. The other nine are elected by the board, which also has power to fill all vacancies. While the College is under the general care of the Reformed Church in the United States, it imposes no sectarian requirements or restraint upon professors or students. The instruction and government of the students are committed

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to the faculty, whose members are elected by the board of trustees. Matters relating to athletic games and intercollegiate contests are determined by the joint action of a committee of the faculty and representatives of the faculty, alumni and student body, constituting the Athletic Association.

LOCATION

The College is located on elevated ground on the northwest side of Lancaster, a city of about 50,000 inhabitants, on the main line of the Pennsylvania railroad, between Philadelphia and Harrisburg. Lancaster is the county seat of "the garden spot of the United States" and the center of a network of electric railways. It has been a college town for a hundred and twenty-five years and has an atmosphere of culture and scholarship and a spirit of friendship and sympathy which is valuable to students of an institution of learning, and favorable to the development of strong, manly character.

CAMPUS

The area of college grounds is fifty-four acres, on which are conveniently grouped ten buildings. The older and original campus possesses large shade trees, with walks and driveways. At the northern end is an enclosed Athletic Field properly arranged for foot-ball, base-ball and track events. The tennis courts are outside of this enclosure. West of the College grounds is the New Buchanan Park of Lancaster City, and on the east, separated by College Avenue, are the buildings of the Theological

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Seminary of the Reformed Church in the United States.

PRESIDENTS

The following have served as Presidents of Franklin and Marshall College:

Emanuel Vogel Gerhart, D.D., LL.D., 1855-66.
John Williamson Nevin, D.D., LL.D., 1866-76.
William Marvel Nevin, A.M., Pro. Tem., 1876-77.
Thomas Gilmore Apple, Ph.D.,DD..,LL.D., 1877-89.
John Summers Stahr, Ph.D.,D.D.,LL.D., 1889-1909.
Henry Harbaugh Apple, A.M., D.D., 1909-

BUILDINGS AND EQUIPMENT

All the buildings are in first class condition and adapted for their particular uses. They are heated with steam and lighted by electricity, except the Library where gas furnishes a softer light for reading.

Recitation Hall.—This main building was erected on the campus in 1855. It is substantially built, three stories in height, with a graceful and conspicuous tower, surmounted by four small steeples. This is the center of college sentiment and tradition. It contains seven recitation rooms, the room of the Young Men's Christian Association, and in the rear the large college chapel.

Society Halls.—On either side of the recitation hall are two halls owned and used by the Diagnothian and Goethean literary societies. They were erected in 1856-7 and are both alike in arrangement. On the first floor each contains a library and social room, on the second floor a large and beautiful assembly room where the weekly meetings are held.

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For a short time during the Civil War they were used as hospitals. The two libraries contain over 18,000 well selected books. With one exception these are conceded to be the most valuable college literary society property in the world.

Gymnasium.—The Gymnasium was built in 1891 through the generosity of a number of friends of the college and furnished by the efforts of the undergraduates. It has an ample exercise hall, supplied with apparatus suited to the systematic drill in gymnastics for which it was designed. It is equipped with the appliances for heavy work, such as horizontal and parallel bars, traveling rings, ladders, horse and striking bag. In the basement is the dressing room, supplied with lockers, and provided with facilities for shower baths. It is additionally used for evening social functions in which the students are interested.

Library.—The Watts de Peyster Library was erected in 1897-98, at a cost of about $36,000, the gift of John Watts de Peyster, LL.D., of Tivoli, New York. It contains about 30,000 volumes, which together with the libraries of the literary societies, make about 48,000 volumes accessible for the use of the students. It is the most beautiful building on the campus, a brick structure with stone trimmings, and can accommodate 75,000 volumes. The stack room is provided with metallic shelving and all the conveniences usual in modern libraries. On the second floor is a reading room where are kept on file all the best secular and religious papers and magazines of this country, as well as the leading English monthly and quarterly

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reviews. The following alcoves are endowed: American Literature, German Language and Literature, Fine Arts, Mental Science, Political Economy, Miscellaneous Books. The Library is a depository for government publications.

The Library and Reading Room are open every day in the week, except Sunday, from 2 to 5 P. M., and from 7 to 10 P. M. All persons are free to consult the books and periodicals on the shelves and tables during these hours: but books, or periodicals, can be taken out for use in private only during afternoon hours, when the Librarian, or his assistant, is in the Library, and when so taken, they may be kept for ten days, with the privilege of renewing them at the end of that period for another ten days.

Set into the wall, at the entrance, is a tablet of conglomerate marble from General de Peyster's home on the Hudson, bearing the following inscription: "This library is erected as a memorial of John Watts, *vir æquanimitatis*, and of Frederick de Peyster, *vir auctoritatis*, by a grandson and son, who, bearing both names, seeks to continue in their honor the good they did and taught him." In the waiting room are oil paintings of the former presidents of the College.

In front of the building is a statue of Abraham de Peyster, of heroic size, first erected in 1895, in Bowling Green, New York, opposite General de Peyster's ancestral home. It was presented to the college and placed on the campus when the library building was erected. Abraham de Peyster (1651-1728) was prominent in our colonial history and was the great-great-great-grandfather of General

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de Peyster, who erected the statue and the library building.

Observatory.—Mrs. James M. Hood, of Frederick, Md., presented the College with the Daniel Scholl Observatory in 1884, as a memorial to her father, Daniel Scholl. She also provided the equipment and gave an endowment of $10,000 for its maintenance. It contains an 11-inch Clark-Repsold equatorial with micrometer, a 3-inch transit instrument by Ertel & Son, a Fauth chronograph, a Seth Thomas precision clock and a chronometer, together with a set of meteorological instruments, a universal instrument, with 10-inch circles, reading to single seconds, a students' telescope with 4-inch objective by Clark, equatorially mounted, with finding circles and driving clock; a sextant and other instruments available for studying problems of time, longitude, latitude and azimuth.

It is thus well equipped with all instruments necessary to gain a practical knowledge of astronomy, whether as an independent science, or in its bearings upon geodesy, navigation and surveying.

Through the generosity of Mr. M. T. Garvin, of Lancaster, Pa., the Observatory is also equipped with instruments by which the students are afforded opportunities for field work in engineering and surveying.

Science Building.—The Science Building is one of the finest of its kind in any college or university. It was built and equipped in 1900-01, at a total cost of $75,000. It is a three-story structure, of light colored brick; the laboratories are separated by fire-proof doors. It contains the Milton S.

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Hershey Chemical Laboratories, the B. Wolff, Jr., Biological Laboratories, the Physical Laboratories, the Charles F. Rengier Geological Equipment, the George F. Baer Laboratory of Applied Electricity, a large museum, lecture rooms for the various departments, professors' studies, a reception room and the President's and Secretary's Offices.

The apparatus in the Physical Laboratory is used to make demonstrations in the general course of physics. The students make measurements upon physical quantities so that the hand and eyes are trained and the mind accustomed to habits of accuracy in carefully conducted investigation of the law of physics.

Among the instruments in the Laboratory of Applied Electricity are two 5-K. W. rotary converters, one variable speed alternator, a Prony break, a magnetic tester, a modified Fessenden contact maker, and voltmeters, wattmeters and ammeters, for direct and alternating currents.

The complete outfit of the thoroughly equipped chemical department is the gift of Mr. Milton S. Hershey, of Hershey, Pa. It includes the General Analytical and Private Laboratories with Assay and Balance Rooms.

The family of the late B. Wolff, Jr., of Pittsburg, Pa., provided the department of Biology in memory of Mr. Wolff. It includes the full equipment of the General Biological Laboratory with all the necessary microscopes and other instruments for each student as well as special laboratories for physiology, histology and embryology. These laboratories, together with the anatomical room, furnish unusual

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facilities for students who are preparing for the study of medicine.

The geological equipment consists of a complete set of Sholer-Davis models and photographs illustrating structural and dynamical geology, relief maps representing in plaster of paris the physiographical and geological formation of the United States, a well selected collection of fossils for the thorough study of historical geology and microscopic appliances. With the *Fahnestock* and *Heisler* collection of minerals, these afford exceptional opportunity for the study of geology.

The Herbarium includes the valuable collection of plants by the late A. P. Garber, M. D. This collection of phænogams and vascular cryptogams is accessible for reference and botanical work.

By an arrangement effected between the Linnæan Scientific and Historical Society of Lancaster, and the Trustees of Franklin and Marshall College, the Linnæan Society has removed its Museum and Cabinet to the College Building. In consequence of this removal, the College has the benefit and use of a very valuable collection of specimens in the different departments of Natural Science. It includes:

1. A complete skeleton of the *Dionoris giganteus*, of New Zealand, presented by Mr. J. M. Mays, of Philadelphia.

2. The collection of Coleoptera, made by the late Professor S. S. Rathvon, of Lancaster, presented to the College by Dr. Henry Bobb, in memory of his son, Eugene H. Bobb, A. M.

3. The extensive collection of terrestrial shells

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made by Rev. Dr. A. B. Kendig, of Brookline, Mass., purchased and presented to the College by Miss E. E. Smith, of Lancaster, Pa., to be called the A. B. Kendig collection.

4. The valuable ornithological collection of Dr. M. W. Raub, consisting of excellent mounted specimens of birds, including nearly all the birds of Pennsylvania.

5. Fine mounted specimens of the moose, deer heads, etc., by Mr. A. C. Kepler and Dr. S. T. Davis.

6. A valuable collection of Indian implements and relics, presented by the Rev. Ellis N. Kremer, D. D.

7. A large number of Lepidoptera and Coleoptera, presented by Dr. M. W. Raub.

8. A valuable collection of eggs of birds native to Lancaster county, by Prof. H. H. Beck.

9. The Fahnestock and Heisler collection of minerals have been carefully classified and arranged by Prof. Beck, and a large number of new cases for the different sections of the museum have been put in place so as to make this department of great value in the service of scientific study.

Academy Buildings.—Two buildings are used by the Academy. The main building was completed in 1908 at a cost of about $100,000. It is 215 feet long, has two wings, 40x75 feet and a chapel seating 350 boys.

Endowment Funds.—The General Education Board, of New York City, has given splendid recognition to the work of Franklin and Marshall College by offering a pledge of $50,000 to the Endowment Fund of the instituton on condition that the authorities of the College secure, by subscription

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or cash, the sum of $308,512.51 before January 1, 1913. The Alumni and friends of the College are making generous response to meet this requirement. This large addition to the endowment funds of the College will insure a high efficiency of work.

GENERAL INFORMATION.

RELIGIOUS OBSERVANCES

The students are confronted with the claims of Christianity in its most concrete and living form. A large proportion of the students are communicant members of the Church, and a Christian spirit underlies and animates the instruction in the different departments.

Church Services.—There is a regularly organized Christian congregation in the institution (St. Stephen's Reformed Church), the members of which are the students, the professors and their families, together with some families in the vicinity not directly connected with the College. The clerical members of the faculties serve as pastors, while the other officers are selected from the members of the congregation. A regular service is held in the College Chapel Sunday morning at 10:30 o'clock during the college year and every Wednesday afternoon in Lent, and the Sacrament of the Lord's Supper is observed four times a year.

All students are required to attend the Sunday service except the sons of parents who reside in Lancaster, or who belong to denominations other than that of the Reformed Church in the United

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States. To such persons permission is given to attend churches of their choice at the *special or written request of their parents or guardians, renewed each year.*

Morning Prayers.—All students are required to attend a service each morning of the week, except Saturday, in the College Chapel at nine o'clock, conducted by the President.

A prayer service is held under the auspices of the Young Men's Christian Association each Sunday evening.

COLLEGE ORGANIZATIONS

Young Men's Christian Association.—The College has a flourishing Young Men's Christian Association which is devoted to the sustaining and extension of religious life among the students. Meetings are held each Sunday evening when an appropriate when an appropriate address is delivered by a minister or Christian layman of the College or city, and classes are formed for the study of missions. The association seeks to be of practical benefit to the development of Christian character and to render service to the students. It publishes at the beginning of each college year a Students' Hand Book, containing a map of Lancaster and useful information concerning the work and activities of the College.

Literary Societies.—Two literary societies, Diagnothian and Goethean, are maintained by the students, who own their society halls, which are beautifully furnished. Each society meets every Friday evening of the collegiate year. Membership is not compulsory but is desired and encouraged by the

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faculty. These societies have had a flourishing existence for seventy-five years and are of great value for the intellectual development of the student. They maintain and publish the *College Student* as their literary organ.

Society membership is one of the qualifications for those who compete for various prizes offered by the College, as well as for admission to the Phi Beta Kappa graduate fraternity.

The Thomas C. Porter Scientific Society meets fortnightly and affords opportunity for the cultivation of interest and research in scientific studies. Several members of the faculty direct its operations.

Nevin Club.—This organization is named after the great theologian, Dr. John Williamson Nevin, a former president of Franklin and Marshall College, and is composed of students who intend to study for the ministry. It affords opportunity for association of those having a common aim in college work and is a constant appeal to all students for recognition of the claims of the service of the Christian ministry.

Fraternities.—Four national Greek Letter Fraternities have chapters and live in their own houses. These organizations work for the best interests of the College and take a prominent part in all its activities.

Phi Beta Kappa.—The college has a chapter in the Phi Beta Kappa fraternity, to whose membership the honor men of each graduating class are elected. Under its auspices each commencement week an address is delivered by some distinguished scholar.

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Social Clubs.—There are a number of local boarding clubs of a social and fraternal nature.

Musical Clubs.—The Glee and Mandolin Clubs render concerts at various places during the winter and spring months.

Dramatic Club.—The Green Room Club presents a play each year in Fulton Opera House in Lancaster. All students are eligible to membership. Selection is made by trial.

Chess Club.—This club has recently been organized and as yet has confined its work to contests among its own members.

Press Club.—The object of this club is to afford actual work in correspondence with daily papers in the state.

ATHLETICS

Ample facilities are afforded for athletic purposes, and all proper encouragement is given for the maintenance of athletic sports. Athletic matters are in the hands of the Athletic Association, to which all students belong. A Board of Governors appointed each year has supervision of all athletics. The college is a member of "The National Athletic Association of the United States." A graded course of physical training, under a competent instructor, is required in the Freshman and Sophmore years. A thorough physical examination is required and care is given to those who participate in athletic contests. An Inter-Scholastic Track Meet is held annually on Williamson Field.

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PUBLICATIONS

The College Student, founded in 1879, is published monthly during the college year under the auspices of the Diagnothian and Goethean Literary Societies. It is devoted to the development of literary activity among the students. A prize is offered each year to the student who contributes the best original piece of fiction.

The F. and M. Weekly reports the news of college work and life and aims to mould proper college spirit.

The Oriflamme is the college annual published by the Junior Class. It is illustrated and intended to present a summary of student life during the current scholastic year.

The College Calendar is issued by the Sophomore Class.

The Nevonian is an annual published by the Senior Class containing the program and addresses of Class-Day.

The Obituary Record contains sketches of all alumni who died during the year and is printed annually by the Alumni Association.

The *Students' Hand Book* contains information especially valuable to new students. It is compiled by the Young Men's Christian Association.

The *Catalogue* is issued annually and gives information about the College as a whole and the register of students.

ALUMNI ASSOCIATIONS

The Alumni of the College have an association, the object of which is to keep alive the sentiment of

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affection for their Alma Mater, and to unite the graduates of successive years by a common tie of fellowship. Its meetings are held annually during commencement week. Various district alumni associations maintain organization by holding at least one meeting each year and tend to keep up and give practical shape to the interest felt by the alumni in the well being of the College.

DEGREES

The College confers the degrees of Bachelor of Arts and Bachelor of Philosophy upon graduation on those who satisfactorily complete the full courses of study as outlined in the catalogue.

ADVANCED DEGREES

The degree of Master of Arts is conferred upon those who have received the degree of Bachelor of Arts from a reputable college and who have satisfactorily completed a prescribed course of study according to the general regulations governing graduate study. The degrees of Master of Philosophy and Master of Science are similarly conferred upon the holders of the corresponding bachelor's degrees. These graduate courses may be pursued either in residence or *in absentia* subject to the regulation that scientific courses can be pursued in *absentia* only where the student has access to laboratory or observatory.

Further particulars may be obtained by application to Prof. A. V. Hiester, Registrar of Graduate Courses.

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COLLEGIATE YEAR

The collegiate year consists of two semesters. The first begins thirteen weeks after the Annual Commencement, and continues until the last week in January, including the Christmas recess of two weeks; the second begins immediately after the close of the first and continues until Commencement.

REPORTS

At the end of each semester the grade of each student in each course taken by him is recorded by the secretary. A report of his standing is then transmitted to his parent or guardian.

EXPENSES

Each student is charged a contingent fee of eighty dollars. This amount includes fees for Library and Reading Room, Laboratory and Gymnasium. It is payable in installments, as follows: five dollars on registration, forty dollars for the first semester and thirty-five for the second, within ten days from the beginning of each. An additional fee of one dollar is charged to those who fail to register at the time specified.

Any student failing to make payment within the required time, unless specifically excused, will suffer the loss of college privileges, and notice of such delinquency will be sent to parents or guardians. A graduation fee of five dollars is charged all students taking the bachelor's degree.

At the beginning of the year students are required to deposit fifty cents for a locker key in the gym-

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nasium, one dollar for a locker key in the laboratories and sums varying from five to fifteen dollars to cover the expense of breakage in the laboratories or to pay for expensive material used in their work. These sums, or the unexpended balances, are returned at the end of the year.

The student's personal expenses are determined largely by his habits and tastes, and are limited by his power of self control. Board and room are obtained in clubs at an average cost of $3.50 a week. In private families it varies from $4.00 to $5.00 a week.

ANNUAL PRIZES

A gold medal is awarded to the member of the Senior Class who passes the most satisfactory examination in the German language. This prize has been permanently endowed by R. K. Buehrle, Ph. D., former Superintendent of Public Schools of Lancaster City.

A gold medal is given to the member of the Junior Class who is successful in competition at the Junior Oratorical Contest. This is called the Wetzel Oratorical Prize and has been endowed by J. W. Wetzel, Esq., Carlisle, Pa.

Two prizes are awarded to members of the Senior Class who shall be judged to hold first and second places in a Senior Prize Debate.

William H. Keller, Esq., of Lancaster City, has offered an annual prize of twenty-five dollars to be awarded at the end of the Sophomore year to the student who has made the best record in the study of Latin and Greek during the Freshman and Sophomore years.

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Prof. H. E. Slagen, A. M., of Lancaster City, offers an annual prize of ten dollars for proficiency in Greek to members of the Junior Class.

There are two prizes offered by both the Diagnothian and Goethean Societies in an oratorical contest for members of the Sophomore and Freshman classes.

Mr. Milton T. Garvin, of Lancaster, offers, provisionally for the present, a one hundred dollar scholarship to an advanced student in biology, to be designated by the professor of that department, for special vacation work at one of the marine biological laboratories.

REQUIREMENTS FOR ADMISSION

Students are admitted by certificate and on examination. In all cases they must present satisfactory testimonials of good moral character, and, if from other colleges, evidences of honorable dismissal.

It is desired that all applications be filed as early as possible.

Applications for admission to advanced standing in the college will not be received later than the opening of the Senior year.

CERTIFICATES

Students are received by certificate from approved schools and academies whose course of study fully covers the requirements for admission. The certificates must state the text-books used in preparation, and the exact amount of work done in each study, as specified in the blank forms furnished by the college and sent to the college direct from the principal of the preparatory school.

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Certificates of the College Entrance Examination Board will be accepted.

EXAMINATIONS

Examinations for admission are held during commencement week and the week of the opening of the college year.

Students applying for admission to advanced classes will be examined on both the preparatory work for entrance to college and on the studies previously pursued by the classes they propose to enter.

Local examinations will be held at such times and places as may be agreed upon, provided there be not less than three applicants to be examined at the same place.

The examinations at Lancaster will be held on June 10–12, and September 9–10.

ADVANCED STANDING

No student will be admitted to advanced standing later than the beginning of the Senior year. Students who come from another college must present full credentials for both college and preparatory work and a letter of honorable dismissal, to receive credit for an equivalent amount upon the records of the College. Others will be received at the discretion of the Committee on Admission or by examinations held only at the College.

SPECIAL COURSES

Students, not candidates for degrees, may be permitted to pursue special courses, for proficiency in which certificates may be granted; but this permis-

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sion will be granted only to students of ability and character sufficient to insure their success. They may become regular students by completing all the work required in the number of courses for full standing in any year.

SUBJECTS FOR ADMISSION

For admission without condition the candidate must secure credit for 14½ units, a unit representing a year's work in a secondary school with four or five periods a week.

A.B. DEGREE.—Candidates for the A.B. degree must present Latin, 4 units, English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, History, 1 unit, making a total of 10½ units. The remaining units to make up a total of 14½ may be selected from any of those specified below, including either Greek or German.

PH.B DEGREE.—Candidates for the Ph.B. degree must present Latin, 4 units, English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, History, 1 unit, making a total of 10½ units. The remaining units to make up a total of 14½ may be selected from any of those specified below, including two units in a foreign language.

SCALE OF VALUES

	Units.
English,	3
Latin, 2 years,	2
3rd year,	1
4th year,	1
Greek, 1 year,	1
2nd year,	1

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	Units.
German, Elementary, 2 years,	2
French, Elementary, 2 years,	2
History—Ancient	1
Mediæval and Modern	1
English,	1
American or Civil Government	1
Mathematics—Elementary Algebra,	1½
Plane Geometry	1
Solid Geometry	½
Advanced Algebra,	½
Plane Trigonometry,	½
Physics, Theoretical and Practical,	1
Chemistry, Theoretical and Practical,	1
Biology or Botany	1
Physical Geography,	1

ENTRANCE EXAMINATION REQUIREMENTS

ENGLISH.

The requirements in English are those adopted by the association of Colleges and Preparatory Schools in the Middle States and Maryland.

Preparation in English has two main objects; (1) command of correct and clear English, spoken and written; (2) ability to read with intelligence and appreciation. The candidate will be required to present evidence of a general knowledge of the subject matter, and to answer simple questions on the lives of the authors as specified below. The form of examination will be the writing of a paragraph or two on each of several topics to be chosen by the candidate from a considerable number set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and

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will call for only a general knowledge of the substance of the books. The essentials of English Grammar are presupposed, and no candidate will be accepted whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs.

For 1912.—Bunyan's *Pilgrim's Progress*, Part I; Pope's *Rape of the Lock;* Hawthorne's *The House of the Seven Gables;* Dicken's *A Tale of Two Cities;* De Quincey's *Joan of Arc* and *The English Mail Coach;* Goldsmith's *The Deserted Village;* Tennyson's *The Princess;* Webster's *First Bunker Hill Oration.*

For 1913.—Shakespeare's *As You Like It* and *Julius Cæsar;* Franklin's *Autobiography;* Goldsmith's *The Deserted Village;* Scott's *Ivanhoe;* Irving's *Sketch Book;* Lamb's *Essays of Elia;* Scott's *The Lady of the Lake;* Longfellow's *The Courtship of Miles Standish.*

LATIN.

Cæsar, the Gallic War, Books I–IV. *Cicero*, six orations (orations against Catiline, for the Manilian Law and For Archias). *Vergil*,six books of the Aeneid. Simple exercises in Latin prose composition.

The chief aim of the examination will be to test the candidate's knowledge of the subject matter, vocabulary, grammatical forms and constructions. This will also be expected from the showing of certificates of admission.

GREEK.

First Greek Book. Xenophon, Anabasis, books I–IV. Fifty Exercises in elementary prose composition.

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GERMAN.

Such a knowledge of the language is required as will indicate a thorough acquaintance with the grammar and as may be obtained by the reading of at least 200 pages. The examination covers the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

MATHEMATICS.

Algebra A.—To Quadratics. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynominals and of numbers. Exponents, including the fractional and negative.

Algebra B.—Quadratic equations, both numerical and literal. Simple cases of equations, with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the *n*th term and the sum of the terms of arithmetical and geometric progressions with applications. (Well's University Algebra to Section XXXI, or Robinson's University Algebra to Chapter VI.)

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Advanced Algebra C.—Progressions, permutations and combinations, binomial theorem, series, logarithms and theory of equations.

Plane Geometry.—The usual theorems and constructions of good text books, including the general properties of plane rectilinear figures, the circle and measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces. (Wentworth's five books.)

Solid Geometry.—The usual theorems and constructions of good text books, including the relations of planes and lines in space; the properties and measurements of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of surfaces and solids (Wentworth's Solid Geometry).

HISTORY.

(*a*) *Ancient History*, with special reference to Greek and Roman history, including also a short introductory study of the more ancient nations and the chief events of the early Middle Ages down to the death of Charlemagne (814).

(*b*) *Mediæval and Modern European History*, from the death of Charlemagne (814) to the present time.

(*c*) *English History.*

(*d*) *American History or Civil Government.*

Candidates for admission will be given credit for not more than two units in History.

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SCIENCE.

Elementary Physics.—The careful study of a standard text book, for the purpose of obtaining a connected and comprehensive view of the subject, covering mechanics, sound, heat, light and electricity. About thirty individual experiments in the laboratory.

Elementary Chemistry.—A course of at least sixty experiments performed by the pupil and accompanied by systematic instruction in the common elements and their compounds, including chemical equations, the simple gas laws, and the fundamental atomic and molecular. theories.

Zoology.—A course covering the work of one year, including the dissection of types of the most important groups of the animal kingdom and a study of the principles of the morphology, physiology, and classification of animals.

Botany.—The applicant will be expected to have a fairly definite knowledge of the seed and seedling, root, stem, and leaf, the flower and fruit, the cell, and to know something about physiological processes, ecology, and the natural history or classification of plants.

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COURSES OF INSTRUCTION

General Statement

Franklin and Marshall College aims to offer to the student an opportunity to secure such general culture as may tend to develop him into a useful citizen without preparing him for any special profession; to enlarge his scholarship, broaden his views and arouse an intelligent interest in all that is best in modern civilization. The course is based upon such intellectual discipline as has been established by centuries of testing as well as by channels opened up by modern scholarship whose value has been proved equal to that of any agencies employed in the past. Choice of electives is given to the student under such restriction as to secure reasonable breadth for the foundation on which his education is to be built.

The College offers two general courses of study leading to the two degrees of A.B. and Ph.B. The A.B. course requires the pursuit of the ancient languages, Latin and Greek, for two years, and one of them for one year more. An exception in this requirement is made in the case of students who begin Greek in the elementary course and who are required to take four years of Greek. The A.B. course also includes four years of modern languages, leaving room for choice between German and French.

The Ph.B. course includes two years of Latin with three years of German and two years of French.

In science study the course is resolved into three

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different groups, viz., (1) one year of chemistry and three years of biology; (2) one year of biology and three years of chemistry; (3) one year of biology and one year of chemistry, with either calculus and advanced analytical geometry or applied electricity and physical measurements.

Each student is required to have at least seventeen hours of recitation or lectures; and no credit will be given for more than five hours of the seventeen in one department. Two hours of laboratory work count as one hour of recitation.

PHILOSOPHY

PROFESSOR STAHR

The course of instruction in this department has two ends in view: To familiarize the student with the methods of philosophic thought and discipline the mind in thinking so as to look for the ultimate ground of knowledge; and to give him such a view of himself and of his relation to society, to nature and to God, that he will be able to correlate all the branches of learning in a system of liberal culture.

(*a*) PHILOSOPHY OF HISTORY.—A course of lectures with oral and written recitations. Sophomore elective. One hour a week; second semester.

(*b*) PSYCHOLOGY.—The study of Psychology, takes up the study of the nervous system and its relation to consciousness. Calkins' First Book in Psychology, with free lectures and recitations. Junior requirement. Three hours a week; first semester.

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(*c*) ÆSTHETICS.—A course of lectures on Æsthetics, outlining the theory of the beautiful with its modifications, the sublime and the comic. Afterwards the class studies the application of æsthetic principles in the development of art. Junior requirement. Two hours a week; second semester.

(*d*) ETHICS.—A course of lectures. The first part is devoted to Metaphysical Ethics, including a discussion of the nature of Freedom and the Formation of Character. The second part, or Practical Ethics, treats of the nature of Virtue, Duty and the Good, and the differentiation of the latter in the forms of Right, Social Cointegration and Religion. The lectures are accompanied by recitations, free discussions and essay writing. Senior requirement. Two hours a week throughout the year.

(*e*) PEDAGOGY.—Includes the study of Philosophy of Education as well as the practical application of Pedagogic Principles. This course is important, not only to students who expect to teach, but also to others who desire a thorough grounding in the principles of true education and culture. Senior elective. Two hours a week throughout the year.

(*f*) LOGIC.—An optional course open to Juniors and Seniors. Two hours a week; second semester.

GREEK

PROF. HELLER. PROF. SCHAEFFER

The study of Greek is required of all candidates for the degree of Bachelor of Arts. Courses are offered for two classes of students: (1) those who enter with full credit for the preparatory work in

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Greek, and (2) those who begin Greek in the college. The former are required to take Courses *c* and *d*; and, in addition, Course *e* or Course *g* is required of those who do not elect one year of Latin after the Sophomore year. Students who begin Greek after entrance are required to take Courses *a*, *b*, *d*, and *g* or *e*.

The purpose aimed at in the department is to give the student such a mastery of the accidence and syntax of the language and such command of its vocabulary as will enable him to read simple Attic Greek with some degree of rapidity and ease, and at the same time to make him acquainted with Greek literature in all of its principal divisions, as illustrated by the works of its greatest writers, as well as familiar with the customs and institutions of the Greek people.

(*a*) ELEMENTARY GREEK.—First Greek Book (White). Anabasis, begun (Goodwin and White). Freshman A. B. requirement for those who enter without Greek. Four hours a week throughout the year.

(*b*) SECOND YEAR GREEK.—Anabasis, continued to end of Book IV. Homer, Iliad, XVI ff. (Leaf and Bayfield, Vol. 2), or Odyssey, IX ff. (Merry). This course is designed to fit the student to take up Course *d*. Sophomore A. B. requirement for those who have completed Course *a*. Three hours a week throughout the year.

(*c*) Xenophon, Hellenica (Brownson). Greek prose composition. Herodotus, VIII. (Smith and Laird). Homer, Iliad, XVI. ff. (Leaf and Bayfield, Vol. 2). Freshman A. B. requirement for those

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who have credit for the preparatory work in Greek. Four hours a week throughout the year.

(*d*) Homer, Iliad, finished. Plato, Apology, (Stock). Euripides, Alcestis (Jerram). Required of Sophomores who have completed Course *c* and of Juniors who have completed Course *b*. Three hours a week throughout the year.

(*e*) GREEK DRAMA.—Æschylus, Prometheus Bound. Sophocles, Œdipus Rex. Aristophanes, Frogs. Lectures on the history of the Greek drama and theatre. Elective. Open to Juniors who have had Course *d*, and by special permission to others. Two hours a week throughout the year.

(*f*) LYRIC GREEK.—Pindar, Olympian and Pythian Odes. Theocritus, Idylls. Elective. Open to those who have had Course *e*. Two hours a week throughout the year.

(*g*) Demosthenes, Oration on the Crown. Thucydides, VI–VII. Required of Seniors who began Greek in their Freshman year. Open to others. Two hours a week throughout the year.

(*h*) NEW TESTAMENT GREEK.—This course consists of a study of the characteristics of the language of the New Testament, the careful reading of the Gospel according to St. Mark and of one of the Epistles of St. Paul, and frequent reports prepared by members of the class. Each student is expected to own Nestle's Novum Testamentum Graece et Latine, and to make constant use of books reserved at the Library. Senior elective. One hour a week throughout the year.

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LATIN

PROF. MULL. PROF. SCHAEFFER.

The course in Latin is arranged to be in harmony with the general purpose of a four-year college course and it is taught and studied with the view to secure the best results attainable within these limits. The disciplinary value of the study is held to be of prime account. Constant stress is laid upon the requirements of close, careful and painstaking study in the preparation of the lessons assigned. Upon this presumption the class-room instruction proceeds, with steady reference to the needs and benefits of the largest number. The quality of the work done is rated above the quantity of ground covered. The aim is to afford every student the amplest opportunity to acquire a knowledge and free use of the means and methods of translation and interpretation; to form correct habits of study, and thus to furnish him with the equipment that is believed to be essential in any serious effort to gain conscious mastery of the subject in whole or in part. The literary values are not underestimated, but they are not made the subjects of technical instruction or the objects of critical study. They are used rather as stimulants for the quickening of the student's own powers of perception and appreciation of literary values in general, and as silent working factors in the process of mental culture. Here the aim is to nourish development from within by the cultivation of the literary feeling based on correct standards, thus placing within reach of the student an acquisition that is susceptible of indefinite enlargement.

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(*a*) LIVY.—Horace Odes. Exercises in Prose Composition. Freshman requirement. Four hours a week throughout the year.

(*b*) HORACE, Odes finished; Satires and Epistles; Juvenal's Satires. Sophomore requirement. Three hours a week throughout the year.

(*c*) CICERO DE ORATORE (or De Officiis); Pliny's or Cicero's Select Letters. Junior elective. Two hours a week throughout the year.

(*d*) THE HISTORIES OF TACITUS.—A critical study of the text, with collateral study of the Roman History writers. Senior elective. Two hours a week; first semester.

(*e*) A STUDY OF THE ROMAN DRAMA AND DRAMATIC LITERATURE, with lectures, and readings in Plautus and Terence; or selections from the Latin Fathers and Latin Hymns. Senior elective. Two hours a week; second semester.

(*f*) LATIN PROSE WRITING.—Senior elective. One hour a week throughout the year.

MODERN LANGUAGES

PROFESSOR DIPPELL

The first two years of modern language study are devoted to the acquirement of a working knowledge of the language itself, while the higher courses emphasize the study of the literature. Drill in pronunciation and the careful study of grammar begin the course, and the translation of easy texts is taken up as early as possible, thus laying the foundation for a working vocabulary. The work is progressively arranged throughout the course, grammar study

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leading up to syntax and advanced composition, while modern texts are followed by the works of the great writers of the eighteenth century, and instruction in special topics is given, ending in a general view of the literature.

The foreign language is used in the class-room as far as practicable, and an effort is made to train the student to express himself correctly in simple language, although it is realized that the ability to speak a modern language freely requires far more practice than can be had in a brief college course.

GERMAN

(*a*) COURSE FOR BEGINNERS.—Pronunciation, composition and dictation. Students are thoroughly drilled in the fundamentals of the language—declensions, conjugations and simple syntax. Some easy text is read near the close of the second semester. Freshman requirement for those who do not offer German for entrance. Two hours a week throughout the year.

(*b*) ADVANCED FRESHMAN GERMAN.—Grammar, composition and translation. For those Freshmen who have passed the entrance requirements in German. Two hours a week throughout the year.

(*c*) SOPHOMORE GERMAN.—Reading and translation of modern German texts. Specific drill in pronunciation, syntax and composition. Required study. Two hours a week throughout the year.

(*d*) JUNIOR GERMAN.—Reading of a play of Schiller's; special endeavor is made to get the German point of view in the drama read. A play of Lessing or one of Goethe's works is read. Ad-

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vanced prose composition. Ph.B. requirement; A.B. elective. Two hours a week throughout the year.

(*e*) GOETHE'S FAUST.—Reading and translation of Faust; discussions on topics suggested by the play; structure of the drama. Lectures on the rise and development of the German theatre. Senior elective. Two hours a week, first semester.

(*f*) LECTURES ON GERMAN LITERATURE.—Complementary course to (*e*). Senior elective. Two hours a week, second semester.

(*g*) GERMAN CONVERSATION.—Open only to Seniors during the second semester. One hour a week. No other language is used in the class-room.

(*h*) SCIENTIFIC GERMAN.—A course of reading in works covering a broad field of scientific and literary topics. Senior elective. One hour a week throughout the year.

FRENCH

(*a*) FIRST YEAR FRENCH.—Drill in the fundamentals of the language. Frazer and Squair's Grammar will be used in 1911–1912. Pronunciation, dictation and translation from English into French. Simple syntax and composition. Reading of some simple modern text. Freshmen Ph.B. requirement; A.B. Freshman and Junior elective. Two hours a week throughout the year.

(*b*) SECOND YEAR FRENCH—Grammar, composition and advanced syntax. Reading of several French plays. Sophomore Ph.B. requirement; Sophomore and Senior A.B. elective. Two hours a week throughout the year.

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ENGLISH

PROFESSOR PORTER

In the courses outlined below, the Department of English aims at three objects: (1) An intelligent understanding of the origin and development of the English Language and Literature; (2) a general acquaintance with English Literature; (3) a reasonable proficiency in English Composition; (4) a comprehensive knowledge of some of the great periods in English Literature.

(*a*) COMPOSITION; EXPOSITION.—Weekly themes; reading in standard authors. Each student is required to own a complete copy of Shakespeare, a King James version of the Bible, and a copy of Woolley's HANDBOOK OF COMPOSITION. Freshman requirement. Two hours a week; first semester.

(*b*) CONTINUATION OF COURSE *a*.—Description and narrative. Further reading in Keats, Poe, Hawthorne, Stevenson, Scott and others. Freshman requirement; second semester

(*c*) A survey of English Literature from the time of the Anglo-Saxons to the present day. Reading of Chaucer's Prologue; Spenser's Faery Queen, Book 1; a History, a Comedy, and a Tragedy of Shakespeare; Milton's Paradise Lost, Books I–III; and as many of the selected works of the poets and prose writers of the eighteenth and nineteenth centuries, as time will permit. Essays on the authors and their works. Each student is required to own Moody and Lovett's HISTORY OF ENGLISH LITERATURE, and the prescribed texts. Sophomore requirement. Two hours a week throughout the year.

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(*d*) THE ENGLISH DRAMA.—Rise and development; a study of the Mysteries, Moralities, and Interludes; works of the predecessors of Shakespeare. Each student is required to own Manly's SPECIMENS OF THE PRE-SHAKESPEREAN DRAMA and the works of Marlowe. Junior requirement. Two hours a week; first semester.

(*e*) CONTINUATION OF COURSE *d*.—Which is prerequisite. Shakespeare; a critical study of as many of his plays as time will allow; the development of his dramatic art. Junior requirement. Two hours a week; second semester.

(*f*) A STUDY OF THE ROMANTIC MOVEMENT IN ENGLISH LITERATURE.—The works of the following poets are read: Pope, (as a representative of eighteenth century literature), Cowper, Burns, Wordsworth, Byron, and Shelley. Essays in literary criticism. Senior requirement. Two hours a week throughout the year.

(*g*) THE VICTORIAN ERA.—A critical study of the works of Tennyson, Browning and Carlyle. Essays on selected topics. Senior elective. Two hours a week throughout the year.

(*h*) A literary and critical study of six plays of Shakespeare. Senior elective. Two hours a week throughout the year. (Omitted in 1911–1912).

ENGLISH BIBLE

PROF. STAHR. PROF. APPLE.

The study of the English Bible is based on the conviction that a knowledge of its historical facts, literary forms, modes of thought, and above all, of

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its ethical and religious teachings, is an essential element of all true culture. The work extends over two years, one hour a week and is required of all students unless excused for conscientious reasons.

(*a*) THE ACTS OF THE APOSTLES AND THE EPISTLES. Juniors.

(*b*) OLD TESTAMENT HISTORY. Seniors.

HISTORY

PROFESSOR KLEIN

The Department of History has a two-fold aim: (1) To give the student a comprehensive survey of the development of Western Europe, it offers in the Freshman and Sophomore years a general course in European History from the decline of the Roman Empire to the end of the nineteenth century; (2) to familiarize the student with the methods of modern historic scholarship as found in the use of sources and the weighing of precise problems of research and criticism, it offers in the Junior and Senior years more detailed courses on particular periods in European and American History. In all the courses offered, the subject comprises lectures, supplementary reading, the writing of essays and the study of selected historical documents.

(*a*) INTRODUCTORY COURSE IN MEDIÆVAL HISTORY.—This course is devoted to the study of the more important movements and epochs in European History since the fall of Rome, such as, the Barbarian Invasion, the rise and development of the Mediæval Empire, the growth and importance of the Mediæval Church, Mohammedanism, the Cru-

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sades, Feudalism, and other characteristic phenomena of the period. Thatcher, A Short History of Mediæval Europe, and Ogg's Source Book of Mediæval History. Freshman requirement. Two hours a week; first semester.

(*b*) GENERAL HISTORY OF EUROPE FROM THE END OF THE THIRTEENTH TO THE BEGINNING OF THE SIXTEENTH CENTURY.—The Renaissance; the rise of cities; the rise of the modern nations; preparation for the Reformation. Lodge, The Close of the Middle Ages. Freshman requirement. Two hours a week; second semester.

(*c*) GENERAL HISTORY OF EUROPE FROM THE OPENING OF THE SIXTEENTH CENTURY TO THE FRENCH REVOLUTION.—The Reformation will be considered in its relation to all the larger problems of modern history. The course will also include a study of the Humanists; the Counter-Reformation; the Independence of the Dutch; the Thirty Years' War; The Ascendancy of France; The Rise of Prussia and Austria; the Balance of Power in Europe. Lectures, assigned readings and discussions.

Schwill's Political History of Modern Europe. Robinson's Readings in European History, Volume II. Sophomore requirement for those who do not take Chemistry in the Sophomore year. Two hours a week; first semester.

(*d*) REVOLUTIONARY EUROPE.—The institutions of the old regime in France; the causes and courses of the French Revolution; the effects of the French Revolution upon other countries of Europe; Napoleon and the Napoleonic Wars; the overthrow of Napoleon and the Treaties of Paris. Lectures,

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assigned readings, discussions and the preparation of short monographs. Schwill's Political History of Modern Europe, Mathew's The French Revolution. Sophomore requirement for those who do not take Chemistry in the Sophomore year. Two hours a week; second semester.

(*e*) AMERICAN HISTORY—The foundation of the Union, 1750–1829; expansion of English Colonies; rivalry of French and English; the causes of the Revolution; the organization of the government under the constitution; the development of national self-consciousness; social, economic and political reorganization. Lectures, collateral reading, preparation of monographs, discussion of theses on the basis of original authorities. Hart's Formation of the Union. Hart's American History Told by Contemporaries. Junior elective. Two hours a week; first semester.

(*f*) AMERICAN HISTORY.—Division and Reunion from 1829–1910, with special reference to the Civil War, and Reconstruction; also later United States History, including the new problems of the last quarter of the century. Lectures, assigned reading, preparation of essays based on original research. Division and Reunion, by the Hon. Woodrow Wilson, Ph.D. Select documents of United States History, by W. MacDonald. Junior elective. Two hours a week; second semester.

(*g*) HISTORY OF MODERN PHILOSOPHY.—A course devoted to the history of the development of thought from Bruno to Spencer. Lectures, assigned readings and discussions. The course aims not only at a description of philosophical systems, but emphasizes

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required reading of selections from the works of the great philosophical masters themselves. Weber's History of Philosophy. Rand's Modern Classical Philosophers. Junior elective. One hour a week throughout the year.

(*h*) EUROPEAN HISTORY IN THE NINETEENTH CENTURY.—This course aims to present the most important developments in the history of European countries since 1815. The reaction in Europe after the overthrow of Napoleon; the reconstruction of Germany; Greek Independence; Revolutions of 1830 and 1848, etc. Lectures, discussions, assigned reading, and preparation of monographs. Hazen's Europe since 1815. Senior elective. Two hours a week; first semester.

(*i*) EUROPEAN HISTORY SINCE 1848.—Napoleon III and the Crimean War; the Union of Italy; the Founding of the German Empire; the Franco-German War; the British Empire in the Nineteenth Century; the Rise of the Balkan States; Industrial Revolution in Russia; the Eastern Question; the Expansion of Europe in Asia and Africa; features of modern progress and a practical study of comparative contemporary political problems. Lectures, collateral readings and the preparation of monographs on the basis of research. Hazen's Europe Since 1815. Senior elective. Two hours a week; second semester.

(*j*) PREHISTORIC ARCHAEOLOGY.—Lectures with collateral reading. The course embraces the study of the earliest human records and their interpretation; the evidences of man's antiquity, social life of primitive man; theories of language, primitive arts,

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industries and religions. Keary's Dawn of History. Senior elective. One hour a week; first semester.

(*k*) HISTORIC ARCHAEOLOGY.—This course embraces the history of the origin and development of the fine arts. Lectures are also devoted to the minor archæological sciences. Brown's The Fine Arts. Reinach's Apollo. Senior elective. One hour a week; second semester.

POLITICS.

PROFESSOR HIESTER

(*a*) AMERICAN CIVIL GOVERNMENT.—A general survey of civil government in the United States, which presupposes an elementary knowledge of the Federal Constitution, and includes a study of the origin, development and practical workings of the national government, a description of the state governments and their relation to the national government, an examination of the various forms of local and municipal government, and a brief account of the history, policies and machinery of political parties. The course is designed particularly for the needs of those who do not expect to take any advanced work in Politics. Beard's American Government and Politics. Sophomore elective. Two hours a week throughout the year.

(*b*) GENERAL POLITICAL SCIENCE.—An analytical and historical examination of the modern state. The main topics considered are: the nature and origin of the state; the forms of the state; the attributes of sovereignty; the theories of state functions; the scope and content of individual liberty, the forms

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of government; the structure of the governments of the most important modern countries, and the place of political parties in the mechanism of government. Garner's Introduction to Political Science. Sophomore elective. Two hours a week throughout the year.

(*c*) AMERICAN CONSTITUTIONAL LAW.—This course is designed to give a knowledge of the general principles of the constitutional law of the United States. The growth and development of the Federal Constitution through judicial interpretation is carefully observed, and the more important decisions of the Supreme Court are studied. McClain's Constitutional Law in the United States. Two hours a week throughout the year. Open to Juniors and Seniors who have had course (*a*). Given only in alternate years. Omitted in 1911–1912.

(*d*) INTERNATIONAL LAW.—A study of the nature, history, subjects and sources of international law, with particular reference to the history and character of American diplomacy and the part played by the United States in the development of modern international law. Lawrence's Principles of International Law. Two hours a week throughout the year. Open to Juniors and Seniors who have had course (*a*). Given in alternate years. Omitted 1912–1913.

ECONOMICS

PROFESSOR HIESTER.

(*a*) GENERAL ECONOMICS.—An introductory course designed for the needs of the general student and embracing, in addition to a comprehensive study

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of the principles underlying the production, exchange, distribution and consumption of wealth, a rapid survey of the evolution of economic society, and a brief history of economic thought. Bullock's Introduction to the Study of Economics. Two hours a week throughout the year. Junior requirement.

(*b*) MONEY AND BANKING.—A critical examination of the problems presented by modern banking and monetary systems; the nature and functions of money; primary and secondary standards of values; prices and credit; domestic and foreign exchange, bank currency; the various systems of commercial banking; the theory and history of bi-metallism. Scotts' Money and Banking. Two hours a week; first semester. Senior elective.

(*c*) PUBLIC FINANCE.—A systematic study of the financial problems of the modern state, the forms of public expenditure, the character and classification of public revenues; the various kinds of taxes; the justification and incidence of taxation; the nature of public credit; the forms of public indebtedness, and the principles of financial administration. Plehn's Introduction to Public Finance. Two hours a week; second semester. Senior elective.

SOCIOLOGY

PROFESSOR HIESTER.

(*a*) GENERAL SOCIOLOGY.—An elementary course dealing with the structure and functions of contemporary society; the natural history of human society; the principles of social evolution; the conditions of

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social progress, and a brief survey of the history of sociological thought. Small and Vincent's Introduction to the Study of Sociology. Three hours a week; first semester. Senior elective.

(*b*) SOCIAL PATHOLOGY.—A course in Applied Sociology which has to do with the defective, dependent and delinquent classes. It considers the relation of the individual to society; the various causes of social abnormability, personal, social and industrial; the influence of heredity and environment; the conclusions which have been established with respect to the cure and prevention of social diseases. Smith's Social Pathology. Three hours a week; second semester. Senior elective.

MATHEMATICS.

PROF. KERSHNER. PROF. APPLE.

(*a*) SOLID GEOMETRY.—Text: Wentworth's Plane and Solid Geometry. Freshman requirement. Three hours a week; first semester.

(*b*) ALGEBRA, including progressions, permutations and combinations, binomial theorem, series, logarithms and theory of equations. Text: Well's University Algebra. Freshman A. B. requirement. Three hours a week; second semester.

(*c*) DESCRIPTIVE GEOMETRY AND MECHANICAL DRAWING.—Freshman elective. Two hours a week throughout the year.

(*d*) THEORY OF EQUATIONS, including determinants and complex numbers. Text: Barton. Freshman Ph.B. requirement and A.B. elective. Two hours a week; second semester.

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(*e*) TRIGONOMETRY, plane and spherical, including plane surveying. Texts: Ashton and Marsh's Plane and Spherical Trigonometry; Wentworth's Plane Surveying. Three hours a week throughout the year. Sophomore requirement.

(*f*) ANALYTICAL GEOMETRY, including straight line, circle, parabola, ellipse and hyperbola, and loci of the second order. Text: Wentworth. Sophomore elective. Three hours a week; second semester.

(*g*) CALCULUS; differential, including the elements of differentiation and integration, Taylor's and Maclaurin's formulas, maxima and minima values of functions, tangents, normals, indeterminate expressions and curve tracing. Elective to Juniors who have had analytical geometry. Three hours a week; first semester.

(*h*) INTEGRAL CALCULUS continued, and differential equations with applications to problems in mechanics. Elective to those who have had elementary calculus. Three hours a week; second semester.

(*i*) ADVANCED ANALYTICAL GEOMETRY, including loci of second order, higher plane curves, and solid geometry. Junior elective. Two hours a week; first semester.

(*j*) COURSE IN MECHANICS with applications of the calculus suitable for students who expect to become engineers. Calculus required. Senior elective. Two hours a week throughout the year.

(*k*) COURSE IN DIFFERENTIAL EQUATIONS.—This course is suitable for students who wish to continue their course in pure mathematics or for engineering students who want to take advanced standing in engineering colleges. Courses (*g*) and (*h*) required. Elective. Second semester, one hour a week.

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PHYSICS

PROFESSOR KERSHNER.

(*a*) PHYSICS with laboratory demonstrations. Mechanics, sound, light and heat. College Physics, Carhart. Junior requirement. Three hours a week; first semester.

(*b*) PHYSICS with laboratory demonstrations, continued. Electricity and magnetism. Junior requirement. Three hours a week; second semester.

(*c*) PHYSICAL MEASUREMENTS IN MECHANICS AND HEAT.—Ames and Bliss. Junior elective. Two hours a week; first semester.

(*d*) PHYSICAL MEASUREMENTS, continued, in heat, light, electricity and magnetism. Junior elective. Two hours a week; second semester.

(*e*) APPLIED ELECTRICITY.—This includes measurement of electromotive forces, resistances, capacities, magnetic properties of iron; and efficiency and characteristics of dynamos. Elective to Juniors or Seniors who have taken Mathematics (*f*) and Physics (*b*). Two hours a week throughout the year.

(*f*) THEORY OF ELECTRICITY.—Required for course (*e*). Junior and Senior elective. One hour a week throughout the year. This course is required in addition to (*a*) and (*b*) by those who want to enter university courses where four hours of General Physics is required.

(*g*) APPLIED ELECTRICITY.—Advanced course. This course is a continuation of course (*e*) and takes up a series of laboratory measurements on alternating currents and photometry. Senior elective. Two hours a week throughout the year.

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(*h*) THEORY OF ELECTRICITY.—Advanced course. Calculus required. This is a course of reading on alternating currents and is complementary to course (*g*). Senior elective. Two hours a week throughout the year.

ASTRONOMY

PROFESSOR APPLE

(*a*) PRACTICAL ASTRONOMY, with work in the Observatory on the problems of time, latitude, longitude and azimuth. Text: Doolittle. Also method of least squares. Elective for those taking Mathematics (*g*). Two hours a week; first semester.

(*b*) A continuation of course (*a*) with advanced work in the Observatory. Two hours a week; second semester.

(*c*) GENERAL ASTRONOMY. Text: Young. Junior and Senior elective to those who have had plane and spherical trigonometry and elements of physics. Three hours a week; second semester.

BIOLOGY

PROFESSOR SCHIEDT

The study of biology is of prime importance in a modern curriculum of liberal culture. Its aim is: (1) To present from a scientific standpoint the main facts relating to form, function and relationship of the best types of plants and animals; (2) to bring the student face to face with the modern methods of biological investigation both in the laboratory and in nature; (3) to enable the student who takes the full

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course to properly grasp the trend of modern thought that has grown out of these investigations and has influenced all departments of life and learning, especially that of philosophy and pedogogy; (4) to pay particular attention to the preparation of young men for the higher requirements of university courses in Biology, Forestry and Medicine. To students who want to prepare for any branch of Economic Zoology the museum is open with its library and collections. The curator offers special instructions to any one desiring such.

(*a*) INVERTEBRATE MORPHOLOGY.—Consists of introductory lectures, study of microscope, gross and microscopic dissection of about twenty types of invertebrates, and lectures and text-book studies on classification, habitat and phylogeny of the lower animals. Texts: Parker and Haswell, and Drew's Laboratory Manual. Sophomore requirement. Five hours laboratory a week; first semester and part of second.

(*b*) VERTEBRATE ZOOLOGY.—Consisting of lectures on the comparative organography of the vertebrates, special study of primitive vertebrates and the dissection of dog-fish, frog, pigeon and cat. Texts: Parker and Haswell, and Pratt's Laboratory Notes. Reference books: Parker and Haswell larger edition, Cambridge Natural History, Wiedersheim, etc. Junior elective. Four hours laboratory throughout the year.

(*c*) VERTEBRATE HISTOLOGY.—Text: Stohr. Reference books: Piersol, Dahlgren and Kepler, etc.; with lectures. Junior elective. Two hours a week throughout the year.

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(*d*) ANIMAL PHYSIOLOGY.—An introductory course consisting of experiments in the physiology of muscle and nerve, of circulation, of respiration and of optics, followed by some essential experiments on the income of energy or physiological chemistry. Texts: Porter's Introduction and the American Text-book on Physiology with other references. Senior elective. Four hours a week throughout the year.

(*e*) VERTEBRATE HISTOLOGY.—A continuation of course (*c*). Senior elective. Two hours a week; first semester.

(*f*) EMBRYOLOGY OF THE CHICK.—Consisting of lectures, mounting of slides, etc. Text: Lillie's Embryology of the Chick. Senior elective. Two hours a week; second semester.

All the foregoing courses include extensive drawings and the presentation of note books. The laboratory periods are generally unlimited.

(*g*) GENERAL PLANT MORPHOLOGY.—Consisting of introductory lectures and of laboratory and field work on the most common types of Thallophytes, Bryophytes, Pteridophytes and Spermatophytes. Text: Coulter's Morphology. Gray's New Manual. Sophomore requirement. Two hours a week, latter half of second semester.

(*h*) SYSTEMATIC AND STRUCTURAL BOTANY.—Collection and study of 250 plants required. Texts: Brown and Britton, Gray's New Manual, DuBarry, Stevens' Plant Anatomy and Chamberlain's Methods of Plant Histology. Junior elective. Two hours a week throughout the year.

(*i*) PHYSIOLOGY AND ECOLOGY OF PLANTS.—Designed for the needs of forestry students. Text:

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Clement's Ecology and Physiology, also MacDougal and Ganong. Senior elective. Two hours a week throughout the year. Weekly experiments in the environment.

(*j*) BACTERIOLOGY.—Comprises manipulation of apparatus and study of essential methods of sterilization, incubation, staining, etc., classification. Texts: Jordan's General Bacteriology, Smith's Laborratory Directions. Senior elective. One hour a week throughout the year.

GEOLOGY

PROFESSOR SCHIEDT

While a purely elective study, Geology is recommended to all science students as a fitting conclusion of both the chemical and the biological courses.

(*a*) DYNAMICAL AND STRUCTURAL GEOLOGY.—Recitations from text combined with the study of the Shaler-Davis models and photographs and the microscopic examination of rock types. Text: Chamberlain and Salisbury's College Geology. Senior elective. Two hours a week; first semester.

(*b*) HISTORICAL GEOLOGY.—A continuation of course (*a*). Senior elective. Two hours a week; second semester.

CHEMISTRY

PROFESSOR BECK

The department of Chemistry offers to the Ph.B. and special student a course extending over four years. The work is planned to cultivate scientific

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spirit and habit, to instill modern methods of pure and applied chemistry, and to teach correct laboratory manipulation. With these purposes in view, the student is instructed in the theory of general analytical and organic chemistry with related subjects, and is required to spend a large part of his time in the laboratory. The graduate is in a position to take up any branch of chemistry intelligently and specialize on it, or the course fits him admirably for further work in medicine or other allied sciences.

To the A.B. student one year of general chemistry is given with an optional year of qualitative analysis. The object of this shorter course is to point out the chemical relations of common life and the world about us, and add practical information and an element of scientific training to a broad college course.

(*a*) GENERAL INORGANIC CHEMISTRY.—Lectures (with experiments) and recitations. The non-metals, metals and their compounds. Laboratory work. Text-book: Inorganic chemistry for colleges, Newell. Junior A. B. and Freshman PhB. requirement. Three hours a week throughout the year.

(*b*) QUALITATIVE ANALYSIS.—Qualitative separations of the metals and analysis of natural and artificial products. Chemical Philosophy and Stoichiometry (to accompany Qualitative Course). Laboratory work. Lectures and recitations. Text-books: Noye's, Prescott and Johnson's works on the subject; also Chemical Calculations. Senior elective for A.B. students. Sophomore requirement for those Ph.B. students who take their major work in the sciences in chemistry; elective for all others. Three hours a week throughout the year.

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(*c*) QUANTITATIVE ANALYSIS.—Volumetric and gravimetric analysis of chemical compounds, ores, fertilizers, etc. Laboratory and lectures. Text-books: Talbot and Fresenius, supplemented with the methods of chemists who are specialists on particular determinations. Junior requirement for those Ph.B. students who take their major work in the sciences in chemistry; elective for all others. Four hours a week throughout the year.

(*d*) ADVANCED QUANTITATIVE ANALYSIS.—A continuation of course (*c*) with special determinations. Senior Ph.B. elective. Three hours a week throughout the year.

(*e*) BLOWPIPE ANALYSIS.—An elementary course in qualitative analysis in the dry way. The chief aim of this course is to assist in the identification of minerals. Lectures and laboratory. Reference book: Blowpipe Analysis by Brush. Senior elective. One hour a week; first semester.

(*f*) MINERALOGY.—Elementary course in physical, chemical and descriptive mineralogy. Laboratory: Practical exercises in determination of the more common mineral species. Text-book: Dana's Mineralogy. Senior Ph.B. elective. One hour a week; first semester.

(*g*) ASSAYING.—Furnace assay of gold, silver, lead ores, etc. Laboratory. Text-book: Rickett and Miller's Notes on Assaying. Senior Ph.B. elective. Two hours a week; first semester.

(*h*) ORGANIC CHEMISTRY.—Lectures, recitations on the chemistry of the typical compounds of carbon. Laboratory work. Determination of specific gravities, melting and boiling points, vapor densities.

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General organic analysis. Preparation of organic compounds, examination of foodstuffs. Text-book: Remsen's Introduction to the Study of the Carbon Compounds. Reference: Richter's Organic Chemistry (translated by Smith). Senior Ph. B. elective. Three hours a week; second semester.

Special courses, for men intending to enter upon any particular line of chemical work, can be planned by consultation with the professor in charge.

HYGIENE

DR. DRAPER

The course is designed to meet the growing demand that educated persons should have a practical knowledge of the laws of health.

(*a*) Personal Hygiene. A study of food, habits, exercise, the care of the skin, the heart, the respiratory organs, the mind, a discussion of the habits of study, of sex hygiene, etc. Lectures with supplementary physical exercise, two hours a week throughout the winter.

(*b*) Social Hygiene. Discussion of the problems of contagious diseases, and general topics of sanitation which concern the individual's relations to the community. Continuation of Course *a*.

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SYNOPSIS OF A. B. COURSE

First Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Greek *c* or *a*	4	Greek *d* or *b*	3	Psychology	3	Ethics	2	Economics *b*	2
Latin *a*	4	Latin *b*	3	Greek or Latin *f*	2	English *f*	2	Sociology *a*	2
German *a* or *b*	2	German *c*	2			Bible *b*	1	Mathematics *j*	2
English *a*	2	English *c*	2	German *d* or French *a*	2			Physics *e*	2
History *a*	2	History *c*	2	English *d*	2	*Elective.*		" *f*	1
Mathematics *a*	3	Mathematics *e*	3	Bible *a*	1	Pedagogy	2	" *g*	2
Hygiene *a*	1	Biology *a*	2	Economics *a*	2	Greek *f*	2	" *h*	2
		Hygiene *b*	1	Physics *a* or Chemistry *a*	3	" *g*	2	Astronomy *a*	2
Elective.						" *k*	1	Biology *d*	2
French *a*	2	*Elective.*				Latin *d*	2	" *e*	2
Mathematics *c*	2	French *b*	2			" *f*	1	" *i*	2
		Politics *a*	2	*Elective.*		German *e*	2	" *j*	2
		" *b*	2	Greek *d*	3	" *h*	1	Geology *a*	2
				" *e*	2	French *b*	2	Chemistry *b*	3
				Latin *c*	2	English *g*	2		
				German *d*	2	" *k*	2		
				French *a*	2	History *h*	2		
				History *e*	2	" *j*	1		
				" *g*	1	Politics *c*	2		
				Hist. Phil.	1	" *d*	2		
				Politics *c* or *d*	2				
				Mathematics *g*	3				
				" *i*	2				
				Physics *c*	2				
				" *e*	2				
				" *f*	1				
				Biology *b*	2				
				" *c*	2				
				" *h*	2				

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SYNOPSIS OF A. B. COURSE

Second Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Greek *c* or *a*	4	Greek *d* or *b*	3	Aesthetics	2	Ethics	2	Economics *c*	2
Latin *a*	4	Latin *b*	3	Greek or Latin	2	English *f*	2	Sociology *b*	2
German *a* or *b*	2	German *c*	2	German *d* or French *a*	2	Bible *b*	1	Mathematics *j* or *k*	1
English *b*	2	English *c*	2	English *e*	2			Physics *e*	2
History *b*	2	History *d*	2	Bible *a*	1	*Elective.*		" *f*	2
Mathematics *b*	3	Biology *g*	2	Economics *a*	2	Pedagogy	2	" *g* or *h*	2
Hygiene *a*	1	Mathematics *e*	3	Physics *b* or Chemistry *a*	3	Logic	2	Astronomy *b*	2
Elective.		Hygiene *b*	1			Greek *f*	2	" *c*	2
French *a*	2	*Elective.*				" *g* or *h*	2	Biology *d*	2
Mathematics *c*	2	French *b*	2	*Elective.*		Latin *e*	2	" *f*	2
" *d*	2	Politics *a*	2	Logic	2	" *f*	2	" *i*	2
		" *b*	2	Greek *d*	3	German *f*	2	" *j*	2
		Mathematics *f*	3	" *e*	3	" *g* or *h*	2	Geology *b*	3
		Phil. of Hist	1	Latin *c*	2	French *b*	2	Chemistry *b*	3
				German *d*	2	English *g* or *h*	2		
				French *a*	2	History *i* or *k*	2		
				History *f*	2	Politics *c* or *d*	2		
				" *g*	1				
				Politics *c* or *d*	2				
				Mathematics *h*	3				
				Physics *d*	3				
				" *e*	2				
				" *f*	1				
				Astronomy *c*	3				
				Biology *b*	2				
				" *c*	2				
				" *h*	2				

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SYNOPSIS OF PH. B. COURSE

First Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Latin *a*	4	Latin *b*	3	Psychology	3	Ethics	2	Physics *e*	2
German *a* or *b*	2	German *c*	2	German *d*	2	English *f*	2	" *f*	1
French *a*	2	French *b*	2	English *d*	2	Bible *b*	1	" *g*	2
English *a*	2	English *c*	2	Bible *a*	1			" *h*	2
History *a*	2	Mathematics *e*	3	Economics *a*	2	*Elective.*		Ast onomy *a*	2
Mathematics *a*	3	Biology *a*	2	Physics *a*	3	Pedagogy	2	Biology *d*	2
Chemistry *a*	3	Hygiene *b*	1			Latin *d*	2	" *e*	2
Hygiene *a*	1			*Elective.*		" *f*	1	" *i*	2
		Elective.		Latin *c*	2	German *e*	2	" *j*	1
Elective.		History *c*	2	History *e*	2	" *h*	1	Geology *a*	2
Mathematics *c*	2	Politics *a*	2	" *g*	1	English *g*	2	Chemistry *d*	3
		" *b*	2	Hist. Phil.	1	" *h*	2	" *e*	1
		Chemistry *b*	3	Politics *c* or *d*	2	History *h*	2	" *f*	1
				Mathematics *g*	3	" *j*	1	" *g*	2
				" *i*	2	Politics *c*	2		
				Physics *c*	2	" *d*	2		
				" *e*	2	Economics *b*	2		
				" *f*	1	Sociology *a*	2		
				Biology *b*	2	Mathematics *j*	2		
				" *c*	2	French *b*	2		
				" *h*	2				
				Chemistry *c*	4				
				French *a*	2				

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SYNOPSIS OF PH. B. COURSE

Second Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Latin *a*	4	Latin *b*	3	Aesthetics	2	Ethics	2	Mathematics *j*	2
German *a* or *b*	2	German *c*	2	German *d*	2	English *f*	2	" *k*	1
French *a*	2	French *b*	2	English *e*	2	Bible *b*	1	Physics *e*	2
English *b*	2	English *c*	2	Bible *a*	1			" *f*	1
History *b*	2	Mathematics *e*	3	Economics *a*	2	*Elective*		" *g*	2
Mathematics *d*	2	Biology *g*	2	Physics *b*	3	Pedagogy	2	" *h*	2
Chemistry *a*	3	Hygiene *b*	1			Logic	2	Astronomy *b*	2
Hygiene *a*	1			*Elective.*		Latin *e*	2	" *c*	3
		Elective.		Logic	2	" *f*	1	Biology *d*	2
Elective.		History *d*	2	Latin *c*	2	German *f*		" *f*	2
Mathematics *c*	2	Politics *a*	2	History *f*	2	" *g*	2	" *i*	2
		" *b*	2	" *g*	1	" *k*	1	" *j*	1
		Mathematics *f*	3	Hist. Phil.	1	English *g*	1	Geology *b*	2
		Chemistry *b*	3	Politics *c* or *d*	2	" *k*	2	Chemistry *d*	3
		Phil. of Hist.	1	Mathematics *h*	3	History *i*	2	" *h*	3
				Physics *d*	2	" *k*	2		
				" *e*	2	Politics *c*	1		
				" *f*	1	" *d*	2		
				Biology *b*	2	Economics *c*	2		
				" *c*	2	Sociology *b*	2		
				" *h*	2	French *b*	3		
				Chemistry c	4		2		
				French *a*	2				

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DEGREES CONFERRED IN 1911

Degrees in Course

Bachelor of Arts

Jeremiah Paul Adam
Robert Moser Adam
James Louis Brant
Eugene Peyton Deatrick
David Dunn
Donald Rogers Gardner
Harold Rau Geisenberger
Christian Risser Gingrich
Cyrus Tobias Gleesner
Frederick Marshall Grove
George Benjamin Hamm
George Nevin Hartman
Edward Hoch Heffner
Benjamin Brubaker Herr
William Edwin Hoy,
George Neiman Kemp
William Kistler Klingaman
David Berto Kraybill
Wilmer Austin Kreider
David Myers Landis
Leonard Llewellyn Leh
Nicholas Pattison Luckenbill
Samuel Marion Neagley
Joseph William Richards
Wallace Lehr Robinson
Edgar Franklin Romig
Orford Ural Schaeffer
Walter Groff Schwab
Howard Scott Spahn
Elliot Critchfield Weller
Howard James Yeager

Bachelor of Philosophy

Guy Dillman Bomberger
John Kryder Evans
William Freeman Hoffman
William Edwin Keefer
George Harold Kinard
Jesse Franklin Leonard
Herbert Mumma LeVan
Thomas Christian Peightal
Chalres Albert Peterson
Henry Weber Pifer
Owen Webster Saylor
Henry Clinton Seitz
Wallance Goldey Wade
Enos Alderfer Wampole
John Leonard Warfel

Master of Arts

Robert Arthur Beyer, Lancaster, Pa.
Henry Snyder Gehman, Paradise, Pa.
William Lawson Machmer, Lancaster, Pa.
John Guise Rossman, Spring Mills, Pa.
Frederick Augustus Rupley, York, Pa.

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HONORARY DEGREES

Doctor of Laws

John F. Mesick, York, Pa.
Charles Erwin Miller, Tiffin O.

Doctor of Letters

William Baxter Owen, Easton, Pa.

Doctor of Pedagogy

Joseph Henry Apple, Frederick, Md.

Doctor of Science

A. Arthur Heller, Reno, Nev.

Doctor of Divinity

Robert C. Bowling, Kittanning, Pa.
Gustavus A. Schwedes, Allentown, Pa.

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FRANKLIN AND MARSHALL ACADEMY

Instructors

Thaddeus G. Helm, A.M., Principal,
Greek

Edwin M. Hartman, A.M., Principal,
German

Martin W. Witmer, A.B.,
English

Jacob B. Landis, A.B.,
English

Edward H. Heffner, A.B.,
Latin

A. Lincoln Gehman, A.B.,
Latin

Joseph A. Rothermel, A.B.,
Mathematics and Science

G. Arthur Van Derhule, A.B.,
Mathematics

Gordon R. Edwards, A.M.,
History

Joseph S. Lawrence, A.M.,
Mathematics and Penmanship

Paul J. Bowman,
Mathematics

George N. Hartman, A.B.,
Gymnasium and Athletics

G. Nevin Rebert,
Athletics

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THE ACADEMY

History

Franklin and Marshall Academy was originally a preparatory department connected with Franklin College. After the union of Marshall College with Franklin College, this department was continued in immediate connection with Franklin and Marshall College, and in 1872, was named Franklin and Marshall Academy, when a new building was erected for its use and a separate faculty and management were appointed, so as "to make more ample provision for its efficiency and to enlarge its usefulness." An additional building was erected three years ago at a cost of $100,000.

Location

The Academy is located on the campus of Franklin and Marshall College. It is the most elevated ground for miles around, affording good drainage, pure air, sanitary conditions and fine distant views of five to fifteen miles.

Aim

The aim of the Academy is well expressed in the words used nearly forty years ago in the resolution of the trustees changing the prepatatory department to Franklin and Marshall Academy. It is to be "in the best and highest sense, a training school for boys who desire to go to college, and also furnish

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a complete academical course for those who do not purpose taking a full collegiate course of study."

While seeking to develop right habits of study and accurate scholarship, the school endeavors also to develop and mold the sound Christian character, which is more important than scholastic efficiency.

BUILDINGS

The equipment of the Academy includes two large buildings, known as East Hall and the Main Building.

East Hall is a three-story brick building in excellent repair equipped with electric light, steam heat, hot and cold water shower baths and all modern conveniences.

The Main Building is large, beautiful, well-planned, well-finished in hard wood, modern in every detail and substantially built of dark red brick, erected at a cost of about $100,000. It is 215 feet long, extending north and south, has two wings, 40x75 feet, and a chapel, seating about 350 boys, built west of the central building. In the center of the building is a large, square hall, with a large fire place, used as a general living room and game room and affords a useful and delightful center for the school life. About one-half of the students can be accomodated in single rooms, or two boys in two communicating rooms, and the others in double rooms with single beds.

LIVING ARRANGEMENTS

All boarding students of the Academy are required to live in one of these buildings.

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The principals live in private apartments, one in each dormitory building. The teachers live in the dormitories with the boys.

In case of slight illness students are placed in the infirmary, fitted for that purpose.

PHYSICAL TRAINING

The school aims to encourage such physical exercise in the gymnasium and on the athletic field as will conduce to the proper development of the student and to the physical condition most favorable to good school work. The Academy boys have their own foot-ball, base-ball, basket-ball, and track teams, which are under the direction of their own competent coach and have their own athletic grounds. They have the privilege of using the college athletic field nearby for playing match games.

The Academy gymnasium is in the basement of the new building, equipped with a metal locker for every boy, toilet and bath rooms with hot and cold water shower baths.

LIBRARIES AND READING ROOMS

The reading room of the Academy, with about forty of the best papers and magazines, is open to students daily. Academy students also have access, without charge, to the reading room of the college, which receives over one hundred of the best papers and magazines of this country, together with a number of the leading foreign reviews, the college library and the libraries of the literary societies, within five minutes' walk of the school, aggregating

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about 50,000 volumes. In these respects, the school affords exceptional advantages for college preparatory students.

LITERARY SOCIETIES

Every boarding student is required to be a member of either the Franklin Literary Society or the Marshall Literary Society. The meetings are conducted by the students, so as to make them acquainted with the rules which hold in deliberative assemblies, but the exercises are under the direction of certain members of the faculty, who are always in attendance, so as to insure careful work and definite results. The work of these societies is made a promintent feature of the school.

RELIGIOUS MEETINGS

All students, unless excused at the written request of parents, attend prayers in the Academy chapel every morning.

All students except those of other than Protestant denominations, are required to attend Sunday morning worship in the College Chapel with the college congregation.

A Young Men's Christian Association is maintained by the student body. About eighty per cent. of the boarding students were enrolled last year in voluntary Bible Classes.

ACADEMY AND COLLEGE

The proximity of the Academy to a classical college secures to the students a literary atmosphere and the benefits of numerous literary exercises,

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debates, lectures, etc., which only such a college community can afford. The Academy is sufficiently separated from the College to avoid the intimate association and intercourse of college and academy students, which is often found objectionable at institutions where these two classes are constantly thrown together.

GRADUATION

A student of the school who has satisfactorily completed the work of any regular course, or such equivalent variation as his college may require, no less than 14 units, is eligible for graduation with the award of the school's diploma. A student who has not completed a full course may receive a certificate of credit for such work as he has satisfactorily passed.

SPECIAL CLASSES

Special classes are organized for young men who teach during the winter and come to the Academy for the spring term.

SUMMER TERM

For teachers and any others desiring work in their line of college preparation a summer term of six weeks is offered, beginning June 17th. The tuition for the term is fifteen dollars.

EXPENSES

Tuition, boarding, furnished room with light and heat, and washing, per school year, $325 and $350. Tuition for day students, $75.

A separate catalog of the Academy, giving more detailed information, will be sent on application.

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REGISTER OF COLLEGE STUDENTS

Graduate Students

Students whose names are marked thus * have not been regular in their respective classes since June, 1911.

Adam Ray Ackerman, A.B. (1908),	Easton, Pa.
Thomas Jacob Bright, A.B. (1903),	Bremerton, Wash.
George Charles Clever, A.B. (1903),	Shippensburg, Pa.
Leon DeHoff, A.B. (1905),	New Orleans, La.
Byrt William Fisher, A.B. (1908),	Lancaster, Pa.
Wm. Chester Greenawalt, A.B. (1907),	New Paltz, N. Y.
Alfred Jasper Herman, A.B. (1903),	Mainville, Pa.
William Edwin Keefer, Ph.B. (1911),	Lancaster, Pa.
Henry Harold Kershner, Ph.B. (1908)	Reading, Pa.
John Nevin Land, A.B. (1907),	Hamburg, Pa.
Jesse Hiram Lauffer, A.B. (1908),	Irwin, Pa.
Joseph Sell Lawrence, A.B. (1904),	Lancaster, Pa.
Leonard Llewellyn Leh, A.B. (1911),	Coplay, Pa.
Cyrus Cleveland Meyer, A.B. (1908),	Washington, Pa.
Edwin Allen Nace, A.B. (1904),	McKeesport, Pa.
Joseph Matthew Newgard, A.B.(1908),	Forreston, Ill.
Joseph Alfred Rothermel, A.B. (1908),	Lancaster, Pa.
Wm. Abraham Schnader, A.B. (1908),	Shamokin, Pa.
Isaac Shirk Simons, A.B. (1909),	Mt. Joy, Pa.
Wallace Goldy Wade, Ph.B. (1911),	Lancaster, Pa.
Levi Nevin Wilson, A.B. (1903),	Tom's Brook, Va.

Senior Class

A.B. Course

Howard Ellwood Ammerman, 536 Lancaster Avenue.	Shamokin, Pa.
Calvin George Bachman, 402 West Lemon Street.	Lynnport, Pa.
Harry Miller Bassler, 144 East James Street.	Lancaster, Pa.

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Clarence Edmund Batschelet, 501 West James Street.	Lock Haven, Pa.
Philip Henry Bridenbaugh, 560 West James Street.	Martinsburg, Pa.
Charles Samuel Coleman, 443 Nevin Street.	Hegins, Pa.
Henry Earle DeHaven, 560 West James Street.	Salisbury, Pa.
Guy Linton Diffenbaugh, 560 West James Street.	Lancaster, Pa., R. D. 6.
James Heber Dorman, 351 North Charlotte Street.	Akron, Ohio.
Howard Emerson Gayley, 433 Charlotte Street.	Howe, Pa.
John Richard Hahn, 332 West Lemon Street.	Reading, Pa.
Robert Reiff Hartsell, 547 West Lemon Street.	South Perkasie, Pa.
Russell Lowell Leaver Hunter, Ephrata, Pa.	Ephrata, Pa.
Victor Herbert Jones, 339 Nevin Street.	Centre Hall, Pa.
William Raymond Jones, 351 North Charlotte Street.	Centre Hall, Pa.
Jacob Franklin Kauffman, 417 North Charlotte Street.	Ridgely, Md.
Joseph Iddings Lauffer, 538 W. Lemon Street.	Irwin, Pa.
Roy Leslie Lewis, 405 West Lemon Street.	Rosenhayn, N. J.
John Gabriel Long, 604 East Chestnut Street.	Lancaster, Pa.
Grover Cleveland Maus, 517 West James Street.	Taneytown, Md., R. D. 1.
Harrison Irving C. Miller, 517 West James Street.	Glencoe, Pa.
Harvey Joseph Miller, 660 West Walnut Street.	Topton, Pa.
Paul Reid Pontius, 536 West James Street.	Butler, Pa.
Homer Franklin Rebert, 534 West James Street.	Littlestown, Pa.
Adam Frederick Rentz, 448 West James Street.	Wyomissing, Pa.

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Jeremiah Rahn Rothermel, 509 West James Street.	Fleetwood, Pa.
Lloyd Ferner Rumbaugh, 560 West James Street.	Mt. Pleasant, Pa.
Paul Franklin Schaffner, 445 West James Street.	Hummelstown, Pa.
Chas. William W. Schantz, 534 West James Street.	Allentown, Pa.
Robert Paul Schearrer, 503 West James Street.	Reading, Pa.
Harry Garfield Sensinger, 509 West James Street.	Lehighton, Pa.
James Ray Shepley, 29 East James Street.	Harrisburg, Pa.
Charles Edwin Sohl, 828 West Lemon Street.	Lancaster, Pa.
William Allen Sohl, 828 West Lemon Street.	Lancaster, Pa.
Earl Landis Stehman, Rohrerstown, Pa.	Rohrerstown, Pa.
Daniel Jacob Wetzel, F. and M. Academy.	Beavertown, Pa.
Raymond Evers Whitmore, Millersville, Pa.	Millersville, Pa.
Harry Zell, New Holland, Pa.	New Holland, Pa.

PH.B. COURSE

Merle Meredith Alexander, 448 West James Street.	Naginey, Pa.
Edwin H. Aston, 560 North Queen Street.	Lancaster, Pa.
Charles Hershey Burns, 244 East Orange Street.	Lancaster, Pa.
David Clinton Colebaugh, 501 West James Street.	Claysburg, Pa.
Rexford Bell Hartle, 660 West Walnut Street.	Hagerstown Md.
Leigh Peoples Helm, New Providence, Pa.	Bart, Pa.
Joseph Swift Irwin, 339 Nevin Street.	Woodstock, Va.
John Leslie Kendig, 138 East Lemon Street.	Lancaster, Pa.

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Benjamin Willis Moyer, 546 West Chestnut Street.	Lancaster, Pa.
Arthur Phenegar Mylin, 415 West James Street.	Leaman Place, Pa.
Robert Martin Oberholser, 332 West Lemon Street.	Lionville, Pa.
Robert Burns Taylor, 622 West Lemon Street.	Reidenbach, Pa.
Clyde Eugene Thomas, 441 North Pine Street.	Adamstown, Md.
Allan Billyeu Wallace, 241 East Orange Street.	Lancaster, Pa.
Charles Henry Wehler, 534 West James Street	Hanover, Pa.
William Edwin Weisgerber, 504 West Lemon Street.	Luthersburg, Pa.
Frank Pattison Werner, 558 West James Street.	Orwigsburg, Pa.
Herbert Ralph Werner, 622 West Lemon Street.	Orwigsburg, Pa.
Clayton Clark Witmer, 351 North Charlotte Street.	Mount Joy, Pa.

SPECIAL

Robert North Burkholder,* 445 West James Street.	Reading, Pa.
Christian Maurice Hershey, 534 West James Street.	Gordonville, Pa.
Frank King Troutwine, 437 West James Street.	Tyrone, Pa.

JUNIOR CLASS

A.B. COURSE

Ross Edgar Benchoff, 413 North Charlotte Street.	Clearfield, Pa.
Louis Birinyi, F. and M. Academy.	Damak, U. P. Hangacs, Hungary.
Howard Heistand M. Bowman, 740 Chester Avenue.	Lancaster, Pa.
Moses H. Brackbill, 520 South Shippen Street.	Lancaster, Pa.
Owen Peterson Bricker, Jr., 311 North Duke Street.	Lancaster, Pa.

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Raymond Michael Bright, 448 West James Street.	Bernville, Pa.
Harry Jacob Donat, 541 Lancaster Avenue.	Wanamakers, Pa.
John Andrew Frants, 321 East King Street.	Lancaster, Pa.
Austin Leonard Grove, 448 West James Street.	Glen Rock, Pa.
Ralph Ellis Hartman, 445 West James Street.	Littlestown, Pa.
John Jacob Hess,* Kinsers, Pa.	Kinsers, Pa.
Elmer Rhodes Hoke, 303 West Lemon Street.	Newark, N. J.
Ralph Penrose Holben, 339 Nevin Street.	Allentown, Pa.
John Hunt,* 437 West James Street.	Riegelsville, N. J.
J. Egbert Imler, 502 West James Street.	Osterburg, Pa.
Clayton Grant Keller,* 304 West James Street.	East Prospect, Pa.
Claude Talmage King, 249 College Avenue.	Littlestown, Pa.
Estes Bilger Landis, 415 Pine Street.	Tylersport, Pa.
Paul Nissley Landis, 503 West James Street.	Womelsdorf, Pa.
Charles de Lefond, 441 Pine Street.	Baltimore, Md.
Simon S. Lehman, Willow Street, Pa.	Willow Street, Pa., R.D. 1.
Thomas Johnston Marshall, 534 West James Street.	Lebanon, Pa.
Edward Louis Nolting, 437 West James Street.	Columbia, Pa.
William Martin Roberts, 560 West James Street.	Altoona, Pa.
Edwin Blaine Romig, 418 West James Street.	Reading, Pa.
Homer Bauman Saul, 534 West Walnut Street.	Delmont, Pa.
Robert Beatty Saxman,* 660 West Walnut Street.	Latrobe, Pa.

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Frank Slough Schwartz,* 414 North Charlotte Street.	Hagerstown, Md.
Louis Malone Smith, 448 West James Street.	Derry, Pa.
Paul Jay Sykes, 437 West James Street.	Cardston, Alberta, Canada.
Paul Conner Wagner, 418 West James Street.	Reading, Pa.
Floyd D. Weaver, 436 North Pine Street.	Liberty, Pa.
Joseph Buch Wissler, 556 West Chestnut Street.	Lititz, Pa.

PH.B. COURSE

George Elder Brinton, 510 West James Street.	Oxford, Pa.
Jacob Clark Henneberger, 560 West James Street.	Greencastle, Pa.
Tobias Leonard Jaeger, 558 West James Street.	Dubuque, Iowa.
Raymond Bitzer Leinbach, 501 West James Street.	Reading, Pa.
Louis Jacob Livingood, 560 West James Street.	Womelsdorf, Pa.
Robert Barr Maclay, 448 West James Street.	Belleville, Pa.
Ralph Henderson Maclay, 448 West James Street.	Belleville, Pa.
George Williard Metger,* 437 West James Street.	Frostburg, Md.
Ralph Lewis Reber, 503 West James Street.	Reading, Pa.
James Stuart Seitz, 351 North Charlotte Street.	Glen Rock, Pa.
John Harold Stein, 234 North Duke Street.	Kutztown, Pa.
Mark Emerson Stine, 415 West James Street.	Elizabethville, Pa.
Hiram Grant Straub, 513½ West James Street.	Minersville, Pa.
Chester Burton Wray, 415 West James Street.	Altoona, Pa.
Cyrus Aaron Weisgerber * 502 West James Street.	Luthersburg, Pa.

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SPECIAL

Charles Snyder Philippi,* 622 West Lemon Street.	Confluence, Pa.
Benjamin Wade Shaub, 246 East Orange Street.	Lancaster, Pa.

SOPHOMORE CLASS

A.B. COURSE

Charles M. Ackerman, 622 West Lemon Street.	Washington, D. C.
Nevin Macaulay Biser,* 558 West James Street.	Frederick, Md.
Ralph Kline Bowman, 509 West James Street.	Front Royal, Va.
Henry Newpher Bowman, 42 West End Avenue.	Lancaster, Pa.
Charles Warren Brewbaker, 517 Lancaster Avenue.	State Line, Pa.
Herman Daniel Deihl, 562 West Lemon Street.	Lancaster, Pa.
Claude Octavius Dierolf, 639 Chester Avenue.	Lancaster, Pa.
Henry Arthur Fox, 517 Lancaster Avenue.	Danboro, Pa.
Frank Preston Fravel, 509 West James Street.	Toms Brook, Va.
Percy Hoffer Gabel, 722 North Lime Street.	Lancaster, Pa.
Edward Townsend Hager, Columbia Avenue.	Lancaster, Pa.
Robert McCulley Halbach, 804 Manor Street.	Lancaster, Pa.
William Oscar Heckman, 435 North Charlotte Street.	Tusseyville, Pa.
Earle Russell Herbert,* 558 West James Street.	Nanticoke, Pa.
Amos Henry Hersh, 561 South Lime Street.	Lancaster, Pa.
Jacob Carpenter Hess, 510 West James Street.	Litits, Pa. R. D. 5.

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Foster Calvin Hillegass, 415 West James Street.	Pennsburg, Pa.
Fred. Hoffman,* 519 West James Street.	Easton, Pa.
Benjamin Harrison Hoober, 436 North Lime Street.	Lancaster, Pa.
Jay Forney Hostetter, 409 West James Street.	Lancaster, Pa.
Herbert King Kendig, 534 West James Street.	York, Pa.
John K. White Kramer, 828 West Lemon Street.	Hyndman, Pa.
Harold Barton Kreider, Witmer, Pa.	Witmer, Pa.
Paul Irving Kuntz, 339 Nevin Street.	York, Pa.
Edwin Reuben Kutz, 549 North Pine Street.	Summit Hill, Pa.
Anson E. Laufer, 509 West James Street.	Brodheadsville, Pa.
Samuel Edwin Lobach, 249 College Avenue.	Lancaster, Pa.
John Karl Miller, Marietta, Pa.	Marietta, Pa.
George Albert Moore, 216 Reservoir Street.	Lancaster, Pa.
William Edward Muth, 622 West Lemon Street.	Northampton, Pa.
Willis Carl Nugent, 414 North Charlotte Street.	Altoona, Pa.
George Henry Otthofer, 451 North Queen Street.	Lancaster, Pa.
Willard Merritt Porterfield, Jr., 433 Nevin Street.	Lancaster, Pa.
Harry Lyman Raub, Marietta Avenue.	Lancaster, Pa.
Paul Herbert Reigner, 415 West James Street.	Reading, Pa.
Victor Abraham Ruth, 434 Lancaster Avenue.	Athol, Pa.
Howard Lester Sassaman, 513½ West James Street.	Hummelstown, Pa.
Alfred Nevin Sayres, 427 South Queen Street.	Lancaster, Pa.

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Herbert Alfred Schaffner, 437 West James Street.	Hummelstown, Pa.
Harvey Arthur Smith, 509 West James Street.	Brodheadsville, Pa.
Caulder Charles Stewart, 436 Lancaster Avenue.	Lebanon, Pa.
Lewis Hoch Wagenhorst, 509 West James Street.	Kutztown, Pa.
Bertram Stuart Walker, 422 West James Street.	Berlin, Pa.
Alvin Roy Frey Weaver, 428 Lancaster Avenue.	Rothsville, Pa.
David Wenger Weber, New Holland, Pa.	New Holland, Pa.
John Wade Wimer, 437 West James Street.	Quarryville, Pa.
Henry Higbee Worthington, 242 Charlotte Street.	Lancaster, Pa.

PH.B. COURSE

Guy Anderson Benchoff, 413 North Charlotte Street.	Clearfield, Pa.
Paul Hamilton Bletz, Jr., Mountville, Pa.	Mountville, Pa.
James Herbert Egan, 139 North Shippen Street.	Lancaster, Pa.
William Edgar Griffith, 437 West James Street.	Imler, Pa.
Oliver Ralph Hartzell, 547 West Lemon Street.	South Perkasie, Pa.
Hiram Peoples Helm,* Bart Pa.	Bart, Pa.
John LeRue Hess, 549 North Pine Street.	Duncannon, Pa.
Charles Wade Jones, 351 North Charlotte Street.	Oshkosh, Wis.
Walter Leroy Kalbach, 415 West James Street.	Reading, Pa.
Kelvin K. Keech, 415 West James Street.	Oahu, Hawaii.
Harold Guy Kittelman, 517 Lancaster Avenue.	Quakertown, Pa.
Edwin Morgan Krecker, 133 Pearl Street.	Lancaster, Pa.

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John Marcus Lansinger, Millersville, Pa.	Millersville, Pa.
William Michael Loy, 417 Charlotte Street.	Trexler, Pa.
Josiah Jacob Markle, 606 Chester Avenue.	Hanover, Pa.
William Henry Masenheimer,* 602 West James Street.	Manchester, Md.
Donald Mitchell Mylin, Leaman Place, Pa.	Leaman Place, Pa.
Carl Nathaniel Netscher, 46 North Prince Street.	Lancaster, Pa.
Robert Wendell Owens, 560 West James Street.	Tyrone, Pa.
Solomon Gilmore Pontius, 536 West James Street.	Butler, Pa.
John Landis Reist, 437 West James Street.	Lancaster, Pa. R.D. 3.
Harold K. Robison, 536 West James Street.	Harrisburg, Pa.
Claudus Lester Rohrbaugh, 351 North Charlotte Street.	Glen Rock, Pa.
John Calvin Saylor, 415 West James Street.	Johnstown, Pa.
John Brower Snyder, 436 Lancaster Avenue.	Reading, Pa.
Michael Garfield Stump, 509 West James Street.	Pine Grove, Pa.
Ralph Stanley Weiler, Terre Hill, Pa.	Terre Hill, Pa.

SPECIAL

Paul Jerome Bowman, F. and M. Academy.	Pillow, Pa.
J. Earl Buch,* Elizabethtown, Pa.	Elizabethtown, Pa.
J. Floyd Bussard,* 536 West James Street.	Stroudsburg, Pa.
George L. Cassel, Jr.,* Marietta, Pa.	Marietta, Pa.
James Mitchell Crane,* 334 East Orange Street.	Lancaster, Pa.
Tunis Bogart Davis,* 536 West James Street.	Port Washington, N. Y.

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H. G. Hassenplug, 728 East King Street.	Lancaster, Pa.
Joseph Edward Marquette,* 422 West James Street.	Binghamton, N. Y.
James Hiestand Staman,* Washington Boro., Pa.	Washington Boro., Pa.
Harry Joseph Strickler,* Lancaster, Pa.	Lancaster, Pa. R.D. 7.

FRESHMAN CLASS

A.B. COURSE

Kenneth Ellmaker Appel, Columbia Avenue.	Lancaster, Pa.
Herbert Franklin Arnold, 509 West James Street.	Saylorsburg, Pa.
Charles Alfred Bennett, 431 Nevin Street.	Renova, Pa.
Wallace Dunn Black, 433 North Charlotte Street.	Rocky Ridge, Md.
Mahlon Frank Bolton, 521 West James Street.	Norristown, Pa.
Raymond James Boyles, Columbia, Pa.	Columbia, Pa.
Elmer Roy Corman, 435 North Charlotte Street.	Spring Mills, Pa.
Rensie Watson Deihl, 562 West Lemon Street.	Lancaster, Pa.
Herbert Espenshade Diller, Leaman Place, Pa.	Leaman Place, Pa.
Paul Stoner Donecker,* 252 East New Street.	Lancaster, Pa.
Tillman Heisey Ebersole, College Campus.	Elizabethtown, Pa.
Emerson Guy Greenawalt, 417 North Charlotte Street.	Lancaster, Pa.
Malcolm Morrison Haring, 424 South Queen Street.	Lancaster, Pa.
John Samuel Hollenbach, 402 West Lemon Street.	Middleburg, Pa.
Edgar Stambaugh Imler, 502 West James Street.	Osterburg, Pa.
Llewellyn Leicest Iobst, 517 Lancaster Avenue.	Freemansburg, Pa.

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Raymond Shirk Johns, 48 North Duke Street.	Lancaster, Pa.
Charles Leon Johnston, 509 West James Street.	Smithburg, Md.
Arthur King Kunkel, 224 Lancaster Avenue.	Harrisburg, Pa.
George Kunkel, Jr., 231 Lancaster Avenue.	Harrisburg, Pa.
William Minster Kunkel, 231 Lancaster Avenue.	Harrisburg, Pa.
Alfred Merton Masonheimer, 443 Nevin Street.	Weatherly, Pa.
Isreal George Nace, 351 North Charlotte Street.	Hanover, Pa.
Paul James Neff, 417 North Charlotte Street.	Ridgely, Md.
Francis Leroy Olweiler, College Campus.	Lancaster, Pa.
Elmer Preston Price, 417 North Charlotte Street.	Reading, Pa.
Irvin Albert Raubenhold, 509 West James Street.	Northampton, Pa.
Heister Guie Rhawn, 413 North Charlotte Street.	Catawissa, Pa.
Jacob Lloyd Rickert, 517 Lancaster Avenue.	Sellersville, Pa.
Harry Lewis Shaffer, 208 North Mulberry Street.	Lancaster, Pa.
Samuel Michael Shelly, 402 West Lemon Street.	Steinsburg, Pa.
John Gross Shook, 435 North Charlotte Street.	Spring Mills, Pa.
Charles Pents Shriver, 431 Nevin Street.	Mechanicsburg, Pa.
V. Galen Slifer, 437 West James Street.	North Wales, Pa
Claude Richmond Stauffer, Leola, Pa.	Leola, Pa.
Howard B. Stauffer, Jr., 433 North Charlotte Street.	Landisville, Pa.
Clarence Adam Trost, 15 East Lemon Street.	Lancaster, Pa.
Bruce Albion Wentz, 524 West Frederick Street.	Lancaster, Pa.

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Charles Raymond Yockey, 249 College Avenue.	Worthington, Pa.
George Herbert Zellers, 519 Lancaster Avenue	Lancaster, Pa.

PH.B. COURSE

Charles Custer Barchfeld, 560 West James Street.	Somerset, Pa.
Edward Henry Berger, 41 South Ann Street.	Lancaster, Pa.
Park Smith Brant, 534 West James Street.	Friedens, Pa.
Harry Edward Brenner, 428 West King Street.	Lancaster, Pa.
Fred Beates Crumbaugh, 304 West King Street.	Kennett Square, Pa.
Charles William Fenstermacher, 534 West James Street.	Coplay, Pa.
Amandus Greenwald Gearhart, 437 West James Street.	Stroudsburg, Pa.
Burtis Rufus Glidden, 558 West James Street.	Aberdeen, Washington.
Thomas Clifford Hayes, 534 West James Street.	Butler, Pa.
John Frederick Holman, 542 West James Street.	Lancaster, Pa.
Abraham Koplin Hostetter, 415 West James Street.	Hanover, Pa.
Karl Musser Houser, 413 North Charlotte Street.	Pennsylvania Furnace, Pa.
Edmund Keffer Kline, 302 North Lime Street.	Lancaster, Pa.
Richard Henry Kline, 631 West Chestnut Street.	Lancaster, Pa.
Raymond Henry Kray, 464 South Duke Street.	Lancaster, Pa.
William Abia Kurtz, 832 West Lemon Street.	South Hermitage, Pa.
Henry Myers Long, 237 North Mary Street.	Detroit, Mich.
Adam Zerphy Moore, 543 West Lemon Street.	Lancaster, Pa.
Henry Osman O'Neil, 524 West James Street.	Norristown, Pa.

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Harold Pollock Pierce, 505 West James Street.	Belle Vernon, Pa.
John Fred Pyfer, 605 College Avenue.	Lancaster, Pa.
John Adam Rieser, 505 West James Street.	Reading, Pa.
Philip Raymond Schreiber, 501 West James Street.	York, Pa.
Charles Edward Schutte, Marietta Avenue.	Lancaster, Pa.
George Smithgall, 523 Pine Street.	Lancaster, Pa.
Richard Muhlenberg Stockton, 26 South Prince Street.	Lancaster, Pa.
George W. Stoler, 351 North Charlotte Street.	Saxton, Pa.
Mark Thatcher, 437 West James Street.	Richland Center, Pa.
Clarence Cornelius Thomas, 419 North Charlotte Street.	Adamstown, Md.
Robert Lee Thornton, Jr., 654 West Chestnut Street.	Lancaster, Pa.
Roy Elmer Wood, 560 West James Street.	Aberdeen, Washington.
Earl Brooke Worthington, 419 North Charlotte Street.	Dry Run, Pa.

SPECIAL

George Michael Blank, 431 Nevin Street.	Greensburg, Pa.
Carl H. Brubaker, Columbia, Pa.	Columbia, Pa.
Charles Lewis Fackler, 415 West James Street.	York, Pa.
Harry Benjamin Hostetter, 715 North Duke Street.	Lancaster, Pa.
Baker Royer, Ephrata, Pa.	Ephrata, Pa.
Charles Carroll Sauber, 221 South Queen Street.	Lancaster, Pa.

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REGISTER OF ACADEMY STUDENTS

Adams, Benjamin Franklin	Lancaster, Pa.
Adams, Carl Franklin	Lancaster, Pa.
Aleman, Albert	Panama, Republic of Panama.
Ambler, Alva Penrose	Fulton House, Pa.
Andreas, John Reuben	Wilkes-barre, Pa.
Anewalt, Paul Fred	Allentown, Pa.
Anstock, Earl David	Frackville, Pa.
[1] Appel, Kenneth Ellmaker	Lancaster, Pa.
Arosemena, Harmodio	Panama, Republic of Panama.
Bair, John McKinley	New Providence, Pa.
[3] Baker, Paul	Landisville, Pa.
Bally, Samuel Walter	Lancaster, Pa.
Bard, George Philip	Leacock, Pa.
Bard, Samuel Shenk	East Petersburg, Pa.
Barr, Richard Hersh	Lancaster, Pa.
Bausman, Franklin Warren	Bausman P. O., Pa.
[2] Bausman, John Myers	Bausman P. O., Pa.
Bender, Howard Andes	Lititz, Pa.
Bender, John Richard	Lititz, Pa.
Bender, George	Lititz, Pa.
[2] Berger, Edward Henry	Lancaster, Pa.
Berner, Carl William	Shenandoah, Pa.
Biehn, Horace Loux	Richland Center, Pa.
Bleiler, Edgar Charles	Frackville, Pa.
Brant, John Gordon	Friedens, Pa.
[1] Brant, Park Smith	Friedens, Pa.
Brenner, Stanley	Witmer, Pa.
Brinkman, Franklin Krauskop	Lancaster, Pa.
Brown, Arthur Ellis	Nottingham, Pa.
Brown, Jasper Roger	Esterly, Pa.
Browne, George Davenport	Lancaster, Pa.
Brubaker, Abram Kurtz	Lancaster, Pa.
[1] Brubaker, Carl Hess	Columbia, Pa.

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Bucher, Harold Follmer	Watsontown, Pa.
Buckius, Walter Roberts	Lancaster, Pa.
Burkholder, Henry Clay	Lancaster, Pa.
Burkholder, Paul Ebersole	Elizabethtown, Pa.
Burns, William Robert	Lancaster, Pa.
Byerly, Norman Ethelbert	Lancaster, Pa.
Campbell, Stell Parker	Millburn, N. J.
Carner, Charles Franklin	Roaring Branch, Pa.
Carpenter, Henry Geistweit	Mt. Joy, Pa.
[6] Cassel, George Lincoln	Marietta, Pa.
Chalfant, Clyde Hurst	Lenover, Pa.
Clark, Harold Way	Belhaven, N. C.
Clever, Samuel Kelso	Shippensburg, Pa.
Cochran, John Frank	Lancaster, Pa.
Coldren, Earl Nathaniel	Newmanstown, Pa.
Colvin, William MacDowell	Schellburg, Pa.
Cook, Harvey Bahner	Shady Grove, Pa.
Cooper, William Franklin	Lancaster, Pa.
Cox, John Alexander	Lancaster, Pa.
Crawford, John Graybill	Mifflintown, Pa.
Cresswell, Robert Nicholas	Petersburg, Pa.
[1] Crumbaugh, Fred Beates	Lancaster, Pa.
Dailey, Earl Charles	Lancaster, Pa.
Daugherty, Davis Clifton	Butler, Pa.
Davidson, James Ferdinand	Oshkosh, Wis.
Davis, Benjamin Franklin	Lancaster, Pa.
Deacon, Warren McAllister	Strasburg, Pa.
Dembo, Leon Haskins	Lancaster, Pa.
Derr, Frank Geary	Marietta, Pa.
DeTamble, Donald Albert	New York, N. Y.
DeTamble, Jean Elbert	New York, N. Y.
DeTamble, Paul Allen	New York, N. Y.
Diefenderfer, Frank Ludwig	Reading, Pa.
Dietrich, David Alton	Hublersburg, Pa.
Diets, Melvin Miller	York, Pa.
Diffenderfer, Paul Brenneman	Lancaster, Pa.
[1] Diller, Herbert Esbenshade	Leaman Place, Pa.
Diller, Samuel William	Lancaster, Pa.
[1] Donecker, Paul Stoner	Lancaster, Pa.
Draper, Charles Herbert	Lancaster, Pa.

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Eckman, John Alfred	Strasburg, Pa.
Eichelberger, Thomas Carl	Everett, Pa.
Elder, Edward Brisbon	Harrisburg, Pa.
Ensminger, Frank Daniel	Manheim, Pa.
Eshleman, Absalom Oliver	Terre Hill, Pa.
Fehr, Stanley James	Tatamy, Pa.
[1] Fenstermacher, Charles William	Coplay, Pa.
Ferguson, John Herman	Clearfield, Pa.
Foltz, Christian Gingrich	Palmyra, Pa.
Foltz, Frederic Steinman	Lancaster, Pa.
Forstburg, Frank McLaughlin	Media, Pa.
Forstburg, Robert Belinius	Media, Pa.
Fortney, Paul	Lancaster, Pa.
Fox, Paul Nathaniel	New Bloomfield, Pa.
Fox, Reginald Judson	New York, N. Y.
Frauenfelder, Elton Adam	Hamburg, Pa.
Frazier, William Thomas	Tyrone, Pa.
Frantz, David Herr	Lancaster, Pa.
Frey, Charles Haverstick	Lancaster, Pa.
Frey, Norman Remley	Lancaster, Pa.
[4] Fry, Jacob Ruth	Ephrata, Pa.
Garrison, Paul Remington	Columbia, Pa.
Garvey, Billroth	Lancaster, Pa.
Garvey, Farrell	Lancaster, Pa.
Gehman, Willis Ralph	Souderton, Pa.
Gerz, Donald Alexander	Lancaster, Pa.
Glessner, Willard	Berlin, Pa.
Gochnauer, Clarence Herr	Lancaster, Pa.
Gonder, Carlos Guy	Boswell, Pa.
Good, Benjamin	Lancaster, Pa.
Graupner, Frederic William	Harrisburg, Pa.
[1] Greenawalt, Emerson Guy	Lehmasters, Pa.
Gregory, Norman Berlin	Gilbert, Pa.
Gresemer, Raymond Clarence	Allentown, Pa.
Groff, Nelson Forney	East Petersburg, Pa.
Grosh, Earl Brandt	Lititz, Pa.
Grove, Lawrence Wesley	Huntingdon, Pa.
Grube, John Franklin	Lancaster, Pa.
Habecker, John Shank	Rohrerstown, Pa.
Hackman, William Huber	Womelsdorf, Pa.

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Hager, William Henderson	Lancaster, Pa.
Hall, Ray Baker	Lancaster, Pa.
Hambleton, Jerre Brown	Wakefield, Pa.
Hammond, William Allen	New Holland, Pa.
[7] Harrison, Robin	Clarksburg, W. Va.
Harsh, Amos Urich	Pittsburg, Pa.
Hartman, Allen Stewart	Gettysburg, Pa.
Hayes, Paul Goodman	Lancaster, Pa.
Headley, Willard	Swedesboro, N. J.
Heiges, George Leonard	Manheim, Pa.
Heilig, Percy Bysshe	Mt. Joy, Pa.
Heine, Ferdinand	Lancaster, Pa.
Helff, Norman Earl	Hummelstown, Pa
Herr, Harry Trout	Landisville, Pa.
Hess, Edgar Garber	Lancaster, Pa.
Hess, Henry Lloyd	Lancaster, Pa.
Hess, William Jackson	Quarryville, Pa.
Hetrich, George Roberts	Birdsboro, Pa.
Hock, Fred Louis	Cressona, Pa.
Hoffman, William Edwin	Tyrone, Pa.
Hoke, Walter Lee	Walkersville, Md.
Holben, Wilmer Phaon	Lyon Valley, Pa.
Hollinger, Jacob Reah	Lancaster, Pa.
Hollinger, John Hertzler	Hollinger, Pa.
Holston, Henry Keisinger Reiss	Pottstown, Pa.
Holzinger, Charles Henry	Willow Street, Pa.
Hoober, Wm. McKinley	Lancaster, Pa.
Hostetter, Harry Benjamin	Lancaster, Pa.
[1] Houser, Karl Musser	Pennsylvania Furnace, Pa.
Houser, Roland Rollman	Lancaster, Pa.
Hunter, Ellis Daniel	Stoney Creek Mills, Reading, Pa.
Hutt, Harold Adam	Philadelphia, Pa.
Illingworth, Henry Snyder	Marietta, Pa.
Ilyus, Edmund Burwell	Lancaster, Pa.
[1] Imler, Edgar Stambaugh	Osterburg, Pa.
Jerrell, Ralph Elmer	Bridgeton, N. J.
[1] Johns, Raymond Shirk	Lancaster, Pa.
Keen, Eslie Arthur	Christiana, Pa.
Keller, Ray	Mt. Joy, Pa.

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Keller, Stanley	Stroudsburg, Pa.
Kendig, Benjamin Franklin	Salunga, Pa.
Kinzer, William Slaymaker	Lancaster, Pa.
Kirk, Norman Roger	Peter's Creek, Pa.
Kirwan, John Edwin	Baltimore, Md.
Klein, Richard Henry	Lancaster, Pa.
[1] Kline, Edmund Keffer	Lancaster, Pa.
[1] Kline, Richard Henry	Lancaster, Pa.
Knecht, Walter Nevin	Parvin, Pa.
Koorie, Aziz Alexander	Patterson, N. J.
[1] Kurtz, William Abia	South Hermitage, Pa.
Landis, Clyde Groff	Lancaster, Pa.
Landis, David Allen	East Petersburg, Pa.
Landis, Nelson Shelley	Windom, Pa.
Lefever, Wilmer Brinton	Reading, Pa.
LeFevre, Chauncey Pennox	Quarryville, Pa.
Leimbach, Milton William	Lutherville, Md.
Leonard, John Hershey	Mountville, Pa.
Levan, Joseph Orndorff	Alexandria, Pa.
Livingston, Richard	Lancaster, Pa.
[6] Loechel, Lloyd Orlando	Elk Lick, Pa.
Lohr, Jacob Donald	Stoyestown, Pa.
[1] Long, Henry Myers	Lancaster, Pa.
[3] Long, Irwin Ellsworth	Stoyestown, Pa.
Lutz, Joseph Russell	Lancaster, Pa.
Lyman, William Lowry	Upper Montclair, N. J.
Manette, Harry Leo	Brockport, Pa.
Martin, Adam	New Holland, Pa.
Marino, Charles Arthur	Port Washington, N. Y.
Marino, John Michael	Port Washington, N. Y.
Marks, George Albert	Lancaster, Pa.
Mathias, Thomas Jacob	Manor, Pa.
McAllister, Lloyd	Willow Street, Pa.
McClellan, Raymond Austin	Jordan, Pa.
McClintock, Emmet Karl	Tyrone, Pa.
Mellinger, Edward Roscoe	Lancaster, Pa.
Meminger, Cyrus Hollinger	Lancaster, Pa.
Merrill, Charles Alvin	Garrett, Pa.
Metzger, Daniel Leigh	Ronk, Pa.
Meyer, David Paul	Rohrerstown, Pa.

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	Mill, Robert Rulison	Roland Park, Md.
	Miller, Claude Edgar	Wyomissing, Pa.
	Miller, Karl Mats	Lancaster, Pa.
	Miller, Lorens William	Pottsville, Pa.
	Miller, Maurice William	Summit Hill, Pa.
	Montgomery, Caleb Eugene	Lancaster, Pa.
	Moore, Robert Furness	Lancaster, Pa.
	Moss, Max	Lancaster, Pa.
	Mott, Henry	Upper Montclair, N. J.
	Moyer, Donald Grosh	Mountain Sunset, Wernersville, Pa.
[8]	Moyer, Ernest Wickert	Perkasie, Pa.
	Mumma, Stanley Nissley	Landisville, Pa.
	Myers, Frank Breneman	Lancaster, Pa.
	Myers, Ralph Schnader	Terre Hille, Pa.
	Mylin, Clement Rodney	Willow Street, Pa.
	Mylin, Edward Everett	Leaman Place, Pa.
[5]	Neff, Luther	Gordon, Pa.
	Nevin, William Robert	New York, N. Y.
	Newpher, James Oliver	Mt. Joy, Pa.
	Nixon, John Hartman	Lancaster, Pa.
	Ormrod, George Henry	Emaus, Pa.
	Pascoe, Robert Malcome	Allentown, Pa.
	Paules, Charles Elmer	Marietta, Pa.
	Perez, Albert Thomas	San Jose, Costa Rica, C. A.
	Phillips, Oliver	Ebensburg, Pa.
	Pry, Hugh Mentzer	Keedysville, Md.
[1]	Pyfer, John Fred	Lancaster, Pa.
	Ranck, Mahlon	Lancaster, Pa.
[3]	Rank, Raymond Arthur	Palmyra, Pa.
	Reese, Gordon Merritt	Lancaster, Pa.
	Rese, John William	Avalon, Pa.
[1]	Rhawn, Hiester Guie	Catawissa, Pa.
	Rhode, Luther Winfield	Lancaster, Pa.
	Rice, Arthur Jacob	Dallas, Pa.
[3]	Richey, James William	Everett, Pa.
[1]	Rickert, Jacob Lloyd	Sellersville, Pa.
	Robison, John Kenney	Mifflintown, Pa.
[3]	Rohrer, George Herman	Lancaster, Pa.
	Rohrer, Harrison Reuben	Orwigsburg, Pa.

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[1] Royer, Baker	Ephrata, Pa.
Rudy, Robert Bartell	Lancaster, Pa.
Rupley, David Besore	York, Pa.
Rupley, Frederick Augustus	York, Pa.
Rupp, Robert Arthur	Hamburg, Pa.
[6] Sallade, Harold	Womelsdorf, Pa.
Sassaman, William Henry	Breinigsville, Pa.
[1] Sauber, Charles Carroll	Lancaster, Pa.
Schaum, Leon Albert	Lancaster, Pa.
Schiedt, Leonard Conrad	Lancaster, Pa.
Schock, Arthur Patterson	Mt. Joy, Pa.
[1] Schutte, Charles Edward	Lancaster, Pa.
Sener, John Fred	Lancaster, Pa.
Shank, Oscar Thomas	Snow Shoe, Pa.
Shank, Walter Landis	Lancaster, Pa.
Shappell, Clarence Edgar	Hamburg, Pa.
Shreiner, Henry Adam	Lititz, Pa.
Shriner, Edward George	Frederick, Md.
[9] Sides, Charles Alcuin	Hyndman, Pa.
Sims, William Carson	Lancaster, Pa.
Singer, Charles Kellemberger	Paradise, Pa.
Skiles, John Dunlap	Lancaster, Pa.
Slagen, John Albert	Lancaster, Pa.
[1] Slifer, Victor Galen	North Wales, Pa.
Smith, Charles Archie	Osterburg, Pa.
Smith, Harry Cheesman	Port Washington, L. I.
Smull, Thomas Lorenzo	Port Washington, L. I.
[9] Snavely, Amos Bowman	Lancaster, Pa.
Starr, Guy Cleveland	Rough and Ready, Pa.
Starr, Ralph Edwin	Klingerstown, Pa.
[1] Stauffer, Claude Richmond	Leola, Pa.
Stauffer, Elias Keath	Quarryville, Pa.
[1] Stauffer, Howard	Landisville, Pa.
[1] Stoler, George	Saxton, Pa.
Stoner, Harry Shaub	Lancaster, Pa.
Stormfeltz, Clarence Sener	Lancaster, Pa.
Strominger, Troup	Mechanicsburg, Pa.
Stutzman, Christian Albert	Hegins, Pa.
Sweigart, Webster Warfel	Lancaster, Pa.
Teeter, Ralph	Waterside, Pa.

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[1] Thatcher, Mark	Richland Center, Pa.
Thomas Howard Weisner,	West Leesport, Pa.
Thompson, Daniel Herbert	Bridgeton, N. J.
[1] Thornton, Robert Lee	Lancaster, Pa.
Troll, Conrad	St. Clairsville, Ohio.
Ward, Paul Cameron	Pennsylvania Furnace, Pa.
Ward, Warren Simon	Pennsylvania Furnace, Pa.
Weagley, Marburg Downin	Waynesboro, Pa.
Weaver, Edward Benjamin	Lancaster, Pa.
Weaver, Herbert Bachman	Lancaster, Pa.
Weaver, Houston Emerson	Lancaster, Pa.
Weaver, William Wiley	Lancaster, Pa.
Weber, Mahlon Wenger	New Holland, Pa.
Werner, Clark John Carroll	Allentown, Pa.
Whitehead, Simon Peter	Manor, Pa.
[3] Wimer, David Cleveland	Quarryville, Pa.
Woods, George Boyd	Leaman Place, Pa.
Woods, John Scott	Leaman Place, Pa.
[1] Worthington, Earl Brooks	Dry Run, Pa.
Wotring, Clayton Warren	Jordan, Pa.
Yoder, Robert Emery Patterson	Allentown, Pa.
Zimmerman, Clarence Arthur	Camden, N. J.
Zimmerman, Martin Denlinger	Narvon, Pa.

Total Enrollment 294.

[1] Entered Franklin and Marshall College.
[2] Entered Lehigh University.
[3] Entered Pennsylvania State College.
[4] Entered Cornell University.
[5] Entered Dickinson College.
[6] Entered University of Pennsylvania.
[7] Entered West Virginia University.
[8] Entered Muhlenburg College.
[9] Entered Carnegie Technical School.

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SUMMARY

Graduate Students		21
Seniors		57
Juniors		48
Sophomores		74
Freshmen		72
Specials		21
		293
Academy		294
Total		587
Deduct names given twice		25
Total		562

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Franklin and Marshall College

Lancaster, Pennsylvania

The Catalogue

1912-1913

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Catalogue

OF

Franklin and Marshall College

LANCASTER, PENNSYLVANIA

1912-1913

PRESS OF
THE INTELLIGENCER
LANCASTER, PA.
1913

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COLLEGE CALENDAR

1912

Examinations for Entrance .....September 9–10
First semester begins at 10 a. m. .....September 12
Thanksgiving Day recess .....Nov. 28–30
Christmas vacation begins at 12:20 p. m. ..Dec. 20

1913

College exercises begin at 9 a. m. ....January 7
Semester examinations .....January 23–29
Registration .....January 29–30
Second semester begins .....February 3
Washington's Birthday—Holiday .....February 22
Easter recess .....March 20–24
Ascension Day—Holiday .....May 1
Anniversary of Goethean Literary Society, May 2
Senior examinations .....May 5–9
Anniversary of Diagnothian Literary Society, May 9
Senior vacation begins .....May 12
Junior Oratorical Contest at 7:30 p. m. ..June 7
Baccalaureate Sunday .....June 8
Advisory Council of Alumni at 10 a. m. ....June 10
Meeting of the Board of Trustees at 2 p. m. June 10
Class Day exercises at 3 p. m. .....June 10
Fraternity and Class Reunions .....June 10
Literary Society reunions at 10 a. m. .....June 11
Meeting of the Alumni Association,
at 11:30 a. m. .....June 11

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COLLEGE CALENDAR

1913

Alumni Luncheon, Campus, at 12:30 p. m. June 11
Annual base-ball game, Athletic Field,
at 3 p. m. ..... June 11
Meeting of the Phi Beta Kappa Fraternity
at 6:45 p. m. ..... June 11
Phi Beta Kappa Oration at 7:30 p. m. .... June 11
Alumni Banquet at 9 p. m. ..... June 11
Seventy-seventh Annual Commencement
at 9 a. m. ..... June 12
Summer vacation of thirteen weeks.
Examinations for entrance ..... September 8–9
Registration ..... September 10
First semester begins at 10 a. m. .... September 11
Thanksgiving Day recess ..... Nov. 27–29
Christmas vacation begins at 12:20 p. m. .. Dec. 19

1914

College exercises begin at 9 a. m. ..... January 6
Semester examinations ..... January 22–28
Second semester begins ..... February 2
Washington's Birthday—Holiday ..... February 22
Easter recess ..... April 9–13
Seventy-eighth Annual Commencement .. June 11

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BOARD OF TRUSTEES

Elected by the Board

Term Expires

WALTER M. FRANKLIN, ESQ. 1914
Lancaster, Pa.

J. W. B. BAUSMAN, ESQ. 1915
Lancaster, Pa.

WILLIAM H. HAGER 1916
Lancaster, Pa.

MILTON F. BARINGER 1916
Wyncote, Pa.

A. C. KEPLER 1917
Lancaster, Pa.

HON. W. U. HENSEL, LITT.D., LL.D. 1919
Lancaster, Pa.

HENRY S. WILLIAMSON 1920
Lancaster, Pa.

E. T. FRAIM 1921
Lancaster, Pa.

JAMES SHAND 1922
Lancaster, Pa.

Elected by the Eastern Synod

REV. N. C. SCHAEFFER, D.D., LL.D. 1913
Lancaster, Pa.

REV. JACOB B. KERSCHNER, D.D. 1913
Freeland, Pa.

SAMUEL P. HEILMAN, M.D. 1914
Heilmandale, Pa.

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B. F. FACKENTHAL, JR., SC.D. 1915
Riegelsville, Pa.

JOHN D. SKILES 1915
Lancaster, Pa.

*REV. J. W. SANTEE, D.D. 1917
Philadelphia, Pa.

REV. F. C. SEITZ 1918
Allentown, Pa.

L. B. KEIPER 1918
Lancaster, Pa.

JOHN W. BICKEL, ESQ. 1918
Norristown, Pa.

C. C. LEADER 1919
Shamokin, Pa.

GEORGE F. BAER, LL.D. 1922
Reading, Pa.

E. S. FRETZ 1922
Pottstown, Pa.

Elected by the Synod of the Potomac

REV. W. C. SCHAEFFER, D.D. 1913
Lancaster, Pa.

WILLIAM J. ZACHARIAS, ESQ. 1917
Chambersburg, Pa.

J. W. WETZEL, ESQ. 1919
Carlisle, Pa.

REV. A. S. WEBER, D.D. 1920
Baltimore, Md.

*Deceased.

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GEORGE D. ROBB 1920
Altoona, Pa.

ROBERT L. MOTTER 1921
York, Pa.

Elected by the Pittsburgh Synod

PAUL C. WOLFF 1914
Pittsburgh, Pa.

HON. JOHN M. JAMISON 1916
Greensburg, Pa.

WM. R. BARNHART 1921
Greensburg, Pa.

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OFFICERS AND COMMITTEES OF THE BOARD OF TRUSTEES

President

GEORGE F. BAER, LL.D.

Vice-Presidents

HON. W. U. HENSEL, LITT.D., LL.D.
JOHN D. SKILES

Recording Secretary

H. S. WILLIAMSON

Corresponding Secretary

GEORGE F. MULL, A.M., LITT.D.

Treasurer

J. W. B. BAUSMAN, ESQ.

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STANDING COMMITTEES

Finance

JOHN D. SKILES,
W. U. HENSEL,
B. F. FACKENTHAL, JR.,
JAMES SHAND,
H. S. WILLIAMSON,
J. W. B. BAUSMAN.

Instruction

W. M. FRANKLIN,
W. C. SCHAEFFER,
A. S. WEBER,
J. W. WETZEL,
J. B. KERSCHNER.

Library

N. C. SCHAEFFER,
A. S. WEBER,
W. U. HENSEL,
F. C. SEITZ,
H. S. WILLIAMSON,
W. M. FRANKLIN
*J. W. SANTEE.

Grounds and Buildings

W. H. HAGER,
L. B. KEIPER,
A. C. KEPLER,
E. T. FRAIM,
H. S. WILLIAMSON,
W. M. FRANKLIN,
S. P. HEILMAN.

Discipline and Degrees

W. U. HENSEL,
N. C. SCHAEFFER,
JOHN W. WETZEL,
J. W. B. BAUSMAN.

*Deceased.

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Permanent Endowment

GEORGE F. BAER, H. S. WILLIAMSON,
W. J. ZACHARIAS, WM. R. BARNHART,
S. P. HEILMAN, B. F. FACKENTHAL, JR.,
MILTON F. BARINGER.

Wilhelm Estate

PAUL C. WOLFF, C. C. LEADER,
B. F. FACKENTHAL, JR., JOHN M. JAMISON.

Observatory

A. S. WEBER, E. T. FRAIM,
J. B. KERSCHNER, GEO. D. ROBB.

Academy

JAMES SHAND, W. H. HAGER,
H. S. WILLIAMSON, W. M. FRANKLIN,
A. C. KEPLER.

Laboratory and Museum

W. C. SCHAEFFER, J. B. KERSCHNER,
L. B. KEIPER, JAMES SHAND,
ROBERT L. MOTTER, JOHN W. BICKEL.

Gymnasium and Athletics

H. S. WILLIAMSON, JAMES SHAND,
W. H. HAGER, L. B. KEIPER,
WALTER M. FRANKLIN.

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ADVISORY COUNCIL OF ALUMNI

The following Alumni have been elected as members of the Advisory Council of Alumni, authorized by the Board of Trustees and by the Alumni Association of Franklin and Marshall College:

S. H. Ranck, '92, Grand Rapids, Mich.
W. N. Appel, Esq., '80, Lancaster, Pa.
W. H. Keller, Esq., '91, Lancaster, Pa.
Hon. Geo. Kunkel, '76, Harrisburg, Pa.
Rev. C. J. Musser, D.D., '78, Philadelphia, Pa.
T. M. Balliet, Ph.D., '76, New York, N. Y.
S. H. Guilford, D.D.S., '61, Philadelphia, Pa.
Rev. L. Kryder Evans, D.D., '64, Pottstown, Pa.

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FACULTY

HENRY HARBAUGH APPLE, A.M., D.D.,
President of the College; Upon the Geo. F. Baer Foundation.
441 College Avenue.

JOHN SUMMERS STAHR, Ph.D., D.D., LL.D.,
J. W. Nevin Professor of Mental and Moral Science, Aesthetics and the Philosophy of History
445 West James Street.

JEFFERSON E. KERSHNER, Ph.D.,
Professor of Mathematics and Physics
445 West Chestnut Street.

GEORGE FULMER MULL, A.M., LITT.D.,
Professor of the Latin Language and Literature
431 West James Street.

RICHARD CONRAD SCHIEDT, A.M., PH.D., Sc.D.,
The B. F. Fackenthal, Jr., Professorship of Natural Science (Biology and Geology)
1043 Wheatland Avenue.

ANSELM VINET HIESTER, A.M.,
Professor of Political and Social Science
320 Race Avenue.

CLARENCE NEVIN HELLER, A.M.,
Professor of Greek
415 North Charlotte Street.

HERBERT HUEBENER BECK, A.C.,
Professor of Chemistry and Mineralogy
Y. M. C. A. Building.

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A. THOMAS G. APPLE, A.M.,
Professor of Mathematics and Astronomy
237 Lancaster Avenue.

H. M. J. KLEIN, PH.D.,
Audenried Professor of History and Archæology
548 West James Street.

VICTOR WILLIAM DIPPELL, PH.D.,
Professor of Modern Languages
563 West Walnut Street.

JOHN NEVIN SCHAEFFER, B.LITT., OXON.
Professor of Classics
25 South West End Avenue.

GEORGE E. PORTER, A.M., PH.D.,*
Professor of English
361 College Avenue.

D. W. DRAPER, M.D.,
Professor of Hygiene and Physical Education
20 West Orange Street.

M. W. RAUB, M.D.,
Curator of the Museum
329 North West End Avenue.

WILLIAM EDWIN WEISGERBER, PH.B.,
Assistant in Chemical Laboratory
413 North Charlotte Street.

HERBERT RALPH WERNER, PH.B.,
Assistant in Biological Laboratory
551 West Lemon Street.

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OFFICERS AND COMMITTEES OF THE FACULTY

President

HENRY HARBAUGH APPLE, A.M., D.D.

Secretary

GEORGE FULMER MULL, A.M., LITT.D.

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Registrar

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On Admission

PROFESSORS MULL, APPLE AND KLEIN

On Registration and Electives

PROFESSORS HIESTER, SCHIEDT AND MULL

On Athletics

PROFESSORS BECK, MULL AND SCHAEFFER

On Non-Athletic Organizations

PROFESSORS SCHIEDT, HELLER AND DIPPELL

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FRANKLIN AND MARSHALL COLLEGE

History and Description

Franklin and Marshall College was formed by the union of two older educational institutions which in their independent existence labored for common ideals and aims and ministered to a common constituency. Franklin College had been maintained in Lancaster, Pa., for fifty-five years and Marshall College had thrived for seventeen years in Mercersburg, Pa., when by an act of the Legislature of Pennsylvania they were merged and consolidated under the name of Franklin and Marshall College, to be located in the city of Lancaster, or its immediate vicinity. The effort to enlarge their sphere of usefulness, by joining their means and labors under one organization, enabled them to confer a more extensive benefit upon the citizens of this state, in the promotion of liberal and scientific learning. The wisdom of that act is justified in the rich fruitfulness and illustrious history of Franklin and Marshall College as an aggressive and vigorous institution for the promotion of higher education.

Franklin College

The educational history of this institution runs back to the trying times of the latter part of the eighteenth century. The charter was granted March 10, 1787. When the infant republic was

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being tested in its right to live and its ability to grow, Franklin College was founded in the historic borough of Lancaster. Those who conceived the purpose of this third oldest college in Pennsylvania, and brought her into being were men prominent in the establishment of the nation and concerned with the development of her people. In the necessity of improving the younger generation, that there might be assured a strong American nation, it was especially requisite to minister to the educational needs of the large and thrifty, but greatly neglected German population of the state. To this end, a petition was made to the Legislature of Pennsylvania to establish a German College and Charity School in Lancaster. "From a conviction of the necessity of diffusing knowledge through every part of the state, in order to preserve our present republican system of government, as well as to promote those improvements in the arts and sciences which alone render nations respectable, great and happy," it was asked, that an institution should be established, "to promote an accurate knowledge of the German and English languages, also of the learned languages, of mathematics, morals, and natural philosophy, divinity, and all such other branches of literature as will tend to make good men and useful citizens." Out of "profound respect for the character of his Excellency, the President of the State, her most distinguished citizen" and one of its projectors and liberal patrons, the school was called Franklin College. Among the first trustees were four signers of the Declaration of Independence, seven officers of the War of the Revolution, three who became gov-

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ernors of Pennsylvania, two distinguished jurists, and two who became senators of the United States. Of the ministers, seven were Reformed, seven Lutheran, one Moravian and one Roman Catholic. The specific aim of the college was further emphasized in the preamble of the act of incorporation. The grant was made because "The citizens of this state, of German birth or extraction, have eminently contributed by their industry, economy and public virtues to raise the state to its present happiness and prosperity"—and because of "a desire to increase and perpetuate the blessings derived to them from the possession of property and a free government"—"to train up a succession of youth to fully understand, zealously practice and strenuously defend the republican form of government." The scope of her sphere was thus national in its conception.

Founded in the interest of Germans, it was never intended to be, as it never became, exclusively a German institution, but it served to foster an appreciation of German life and literature and formed an environment in which the sons of Germans might be educated without being alienated from the faith of their fathers. In emphasizing the English course and teaching "all those branches of literature which are usually taught in the colleges of Europe and America" it was a valuable agency to mediate German thought and mould German life into American manhood. Its purpose to give higher learning and liberal culture to the people of the interior of the state was always held firmly in view and in the face of many difficulties in its en-

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vironment, and the lack of adequate financial support it continued a blessed service during the time of its independent existence. Among the first trustees were the Hons. Thomas Mifflin, Thomas McKean, Robert Morris, George Clymer, Benjamin Rush and the Revs. Drs. J. H. C. Helmuth, Casper Weiberg, Henry E. Muhlenberg and William Hendel. Its effective worth may be estimated from the statement of Benjamin Rush, who said of its faculty, "A cluster of more learned or better qualified masters, I believe, I have never met in any university." It included Dr. F. A. Muhlenberg, the botanist, Dr. Frederick Valentine Melsheimer, "the father of American entomology," and James Ross, author of a Latin and a Greek Grammar, and "one of the foremost classical scholars of America."

MARSHALL COLLEGE

A classical institution aiming to give an adequate training to those preparing for the ministry of the German Reformed Church was proposed prior to the year 1829 and in 1831 such a school was started at York, Pa. It was firmly established in 1833 when Dr. F. A. Rauch was placed in charge. In 1835 the name was changed to the "High School of the Reformed Church" and in the fall of the same year was removed to Mercersburg, the little village in the mountains, destined to become famous as the seat of "Mercersburg Theology." On the thirty-first day of March, 1836, the Legislature of Pennsylvania enacted "that the high school of the

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German Reformed Church, located at Mercersburg, in the county of Franklin, be and hereby is erected into a college, for the education of youth in the learned languages, the arts, sciences and useful literature." It was named after the eminent Chief Justice of the United States, "in testimony of respect for the exalted character, great worth, and high mental attainments of the late John Marshall." While owing its origin to a zeal on the part of a religious denomination, it soon broadened its sphere and enlarged its course to meet the needs and serve the wants of those seeking a liberal education to prepare for the profession of law and medicine or enter a business career. It had a choice coterie of professors, men of large vision and distinguished scholarship. Here it was that Dr. Frederick Augustus Rauch, fresh from the German University and in the full vigor of young manhood, produced his pioneer work on psychology and blended German philosophy with American thought. Here the giant theologian, Dr. John Williamson Nevin, taught and wrote, and by the vigor and richness of his works claimed attention from scholars of Europe as well as America. Associated with them were Dr. Philip Schaff, one of the foremost church historians of this country; Dr. Henry Harbaugh, the versatile poet preacher; the brilliant Dr. E. E. Higbee, who later filled a most successful administration as Superintendent of Public Schools of Pennsylvania; and the distinguished botanist and voluminous writer, Dr. Thomas C. Porter, the learned scientist, Dr. Traill Green, with Dr. William Marvel Nevin in the chair of English

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Literature. This faculty, worthy of any university, laid broad and deep the foundation of a true college. Their liberal educational views, profound Christian scholarship and high culture not only moulded students in personal contact, but gave inspiration and enthusiasm to education generally. Marshall College is the main source of the present institution, and its history presents ideals which in their simple dignity are worthy of our constant imitation.

FRANKLIN AND MARSHALL COLLEGE

Neither Franklin College nor Marshall College was able to accomplish in full measure the purpose for which it had been established, and both were looking for means to enlarge the scope of their work. As the result of mutual overtures they were united under a new charter, and Marshall College was removed to Lancaster in the spring of 1853, to carry the union into effect. The formal opening took place on June 7, 1853. The charter granted on April 19, 1850, empowers the College to grant "such degrees in the arts and sciences or other useful learning as have been usually granted in other colleges or universities in America or Europe."

Under the successful guidance of efficient presidents the College grew and prospered and furnished a remarkable history which bestows upon this age a rich and glorious heritage. In successive years her faculty and students increased, her campus was enlarged and her course strengthened and enriched. The proper course of historical development and

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the solidarity of her educational system has been preserved. The broad, liberal spirit which characterized Franklin College and the profound philosophy and Christian culture peculiar to Marshall College are united in the facilities and purposes of her thorough educational system in preparation for professional and technical training, as for all the duties of life.

The College bases its claim for patronage and support on the advantages which it offers for obtaining a thorough liberal education. The curriculum is adapted to afford training for culture and discipline and aims at thorough instruction, harmonious development and the formation of sound character. The studies are so arranged that the students, in their entire course, come in contact with the regular professors—men of ability, experience and enthusiasm in their respective departments—and receive in this way not only the highest measure of personal attention, but also the inspiration which the genuine scholar and teacher, by personal influence, always communicates.

The College is under the ownership and general control of a board of trustees, thirty in number, to be held in trust for the Eastern Synod, the Pittsburg Synod, and the Synod of the Potomac of the Reformed Church in the United States. The Eastern Synod elects twelve, the Pittsburg Synod three and the Synod of the Potomac six members of the board for a period of ten years. The other nine are elected by the board, which also has power to fill all vacancies. While the College is under the general care of the Reformed Church in the United

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States, it imposes no sectarian requirements or restraint upon professors or students. The instruction and government of the students are committed to the faculty, whose members are elected by the board of trustees. Matters relating to athletic games and intercollegiate contests are determined by the joint action of a committee of the faculty and representatives of the faculty, alumni and student body, constituting the Athletic Association.

LOCATION

The College is located on elevated ground on the northwest side of Lancaster, a city of about 50,000 inhabitants, on the main line of the Pennsylvania railroad, between Philadelphia and Harrisburg. Lancaster is the county seat of "the garden spot of the United States" and the center of a network of electric railways. It has been a college town for a hundred and twenty-five years and has an atmosphere of culture and scholarship and a spirit of friendship and sympathy which is valuable to students of an institution of learning, and favorable to the development of strong, manly character.

CAMPUS

The area of college grounds is fifty-four acres, on which are conveniently grouped ten buildings. The older and original campus possesses large shade trees, with walks and driveways. At the northern end is an enclosed Athletic Field properly arranged for foot-ball, base-ball and track events. The tennis courts are outside of this enclosure. West of the

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College grounds is the New Buchanan Park of Lancaster City, and on the east, separated by College Avenue, are the buildings of the Theological Seminary of the Reformed Church in the United States.

PRESIDENTS

The following have served as Presidents of Franklin and Marshall College:
Emanuel Vogel Gerhart, D.D., LL.D., 1855–66.
John Williamson Nevin, D.D., LL.D., 1866–76.
William Marvel Nevin, A.M., Pro. Tem., 1876–77.
Thomas Gilmore Apple, Ph.D.,D.D.,LL.D.,1877–89.
John Summers Stahr, Ph.D.,D.D.,LL.D.,1889–1909.
Henry Harbaugh Apple, A.M., D.D., 1909–

BUILDINGS AND EQUIPMENT

All the buildings are in first class condition and adapted for their particular uses. They are heated with steam and lighted by electricity, except the Library where gas furnishes a softer light for reading.

Recitation Hall—This main building was erected on the campus in 1855. It is substantially built, three stories in height, with a graceful and conspicuous tower, surmounted by four small steeples. This is the center of college sentiment and tradition. It contains seven recitation rooms, the room of the Young Men's Christian Association, and in the rear the large college chapel.

Society Halls.—On either side of the recitation hall are two halls owned and used by the Diagnothian and Goethean literary societies. They were

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erected in 1856–7 and are both alike in arrangement. On the first floor each contains a library and social room, on the second floor a large and beautiful assembly room where the weekly meetings are held. For a short time during the Civil War they were used as hospitals. The two libraries contain over 18,000 well selected books. With one exception these are conceded to be the most valuable college literary society property in the country.

Gymnasium.—The Gymnasium was built in 1891 through the generosity of a number of friends of the college and furnished by the efforts of the undergraduates. It has an ample exercise hall, supplied with apparatus suited to the systematic drill in gymnastics for which it was designed. It is equipped with the appliances for heavy work, such as horizontal and parallel bars, traveling rings, ladders, horse and striking bag. In the basement is the dressing room supplied with lockers, and provided with facilities for shower baths. It is additionally used for evening social functions in which the students are interested.

Library.—The Watts de Peyster Library was erected in 1897–98, at a cost of about $36,000, the gift of John Watts de Peyster, LL.D., of Tivoli, New York. It contains about 30,000 volumes, which together with the libraries of the literary societies, make about 48,000 volumes accessible for the use of the students. It is the most beautiful building on the campus, a brick structure with stone trimmings, and can accommodate 75,000 volumes. The stack room is provided with metallic shelving and all the conveniences usual in modern libraries.

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On the second floor is a reading room where are kept on file all the best secular and religious papers and magazines of this country, as well as the leading English monthly and quarterly reviews. The following alcoves are endowed: American Literature, German Language and Literature, Fine Arts, Mental Science, Political Economy, Miscellaneous Books. The Library is a depository for government publications.

The Library and Reading Room are open every day in the week, except Sunday, from 2 to 5 P. M., and from 7 to 10 P. M. All persons are free to consult the books and periodicals on the shelves and tables during these hours: but books, or periodicals, can be taken out for use in private only during afternoon hours, when the Librarian, or his assistant, is in the Library, and when so taken, they may be kept for ten days, with the privilege of renewing them at the end of that period for another ten days.

Set into the wall, at the entrance, is a tablet of conglomerate marble from General de Peyster's home on the Hudson, bearing the following inscription: "This library is erected as a memorial of John Watts, *vir æquanimatatis*, and of Frederick de Peyster, *vir auctoritatis*, by a grandson and son, who, bearing both names, seeks to continue in their honor the good they did and taught him." In the waiting room are oil paintings of the former presidents of the College.

In front of the building is a statue of Abraham de Peyster, of heroic size, first erected in 1895, in Bowling Green, New York, opposite General de

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Peyster's ancestral home. It was presented to the College and placed on the campus when the library building was erected. Abraham de Peyster (1651–1728) was prominent in our colonial history and was the great-great-great-grandfather of General de Peyster, who erected the statue and the library building.

Observatory.—Mrs. James M. Hood, of Frederick, Md., presented the College with the Daniel Scholl Observatory in 1884, as a memorial to her father, Daniel Scholl. She also provided the equipment and gave an endowment of $10,000 for its maintenance. It contains an 11-inch Clark-Repsold equatorial with micrometer, a 3-inch transit instrument by Ertel & Son, a Fauth chronograph, a Seth Thomas precision clock and a chronometer, together with a set of meteorological instruments, a universal instrument, with 10-inch circles, reading to single seconds, a students' telescope with 4-inch objective by Clark, equatorially mounted, with finding circles and driving clock; a sextant and other instruments available for studying problems of time, longitude, latitude and azimuth.

Through the generosity of Mr. M. T. Garvin, of Lancaster, Pa., the Observatory is also equipped with instruments by which the students are afforded opportunities for field work in engineering and surveying.

It is thus well equipped with all instruments necessary to gain a practical knowledge of astronomy, whether as an independent science, or in its bearings upon geodesy, navigation and surveying.

Science Building.—The Science Building is one

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of the finest of its kind in any college or university. It was built and equipped in 1900–01, at a total cost of $75,000. It is a three-story structure, of light colored brick; the laboratories are separated by fire-proof doors. It contains the Milton S. Hershey Chemical Laboratories, the B. Wolff, Jr., Biological Laboratories, the Physical Laboratories, the Charles F. Rengier Geological Equipment, the George F. Baer Laboratory of Applied Electricity, a large museum, lecture rooms for the various departments, professors' studies, a reception room and the President's and Secretary's Offices.

The apparatus in the Physical Laboratory is used to make demonstrations in the general course of physics. The students make measurements upon physical quantities so that the hand and eye are trained and the mind accustomed to habits of accuracy in carefully conducted investigation of the law of physics.

Among the instruments in the Laboratory of Applied Electricity are two 5-K. W. rotary converters, one variable speed alternator, a Prony break, a magnetic tester, a modified Fessenden contact maker, and voltmeters, wattmeters and ammeters, for direct and alternating currents.

The complete outfit of the thoroughly equipped chemical department is the gift of Mr. Milton S. Hershey, of Hershey, Pa. It includes the General Analytical and Private Laboratories with Assay and Balance Rooms.

The family of the late B. Wolff, Jr., of Pittsburg, Pa., provided the department of Biology in memory of Mr. Wolff. It includes the full equipment of

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the General Biological Laboratory with all the necessary microscopes and other instruments for each student as well as special laboratories for physiology, histology and embryology. These laboratories, together with the anatomical room, furnish unusual facilities for students who are preparing for the study of medicine.

The geological equipment consists of a complete set of Sholer-Davis models and photographs illustrating structural and dynamical geology, relief maps representing in plaster of paris the physiographical and geological formation of the United States, a well selected collection of fossils for the thorough study of historical geology and microscopic appliances. With the *Fahnestock* and *Heisler* collection of minerals, these afford exceptional opportunity for the study of geology.

The Herbarium includes the valuable collection of plants by the late A. P. Garber, M.D. This collection of phænogams and vascular cryptogams is accessible for reference and botanical work.

By an arrangement effected between the Linnæan Scientific and Historical Society of Lancaster, and the Trustees of Franklin and Marshall College, the Linnæan Society has removed its Museum and Cabinet to the College Building. In consequence of this removal, the College has the benefit and use of a very valuable collection of specimens in the different departments of Natural Science. It includes:

1. A complete skeleton of the *Dionoris giganteus*, of New Zealand, presented by Mr. J. M. Mays, of Philadelphia.

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2. The collection of Coleoptera, made by the late Professor S. S. Rathvon, of Lancaster, presented to the College by Dr. Henry Bobb, in memory of his son, Eugene H. Bobb, A.M.

3. The extensive collection of terrestrial shells made by Rev. Dr. A. B. Kendig, of Brookline, Mass., purchased and presented to the College by Miss E. E. Smith, of Lancaster, Pa., to be called the A. B. Kendig collection.

4. The valuable ornithological collection of Dr. M. W. Raub, consisting of excellent mounted specimens of birds, including nearly all the birds of Pennsylvania.

5. Fine mounted specimens of the moose, deer heads, etc., by Mr. A. C. Kepler and Dr. S. T. Davis.

6. A valuable collection of Indian implements and relics, presented by the Rev. Ellis N. Kremer, D. D.

7. A large number of Lepidoptera and Coleoptera, presented by Dr. M. W. Raub.

8. A valuable collection of eggs of birds native to Lancaster county, by Prof. H. H. Beck.

9. The Fahnestock and Heisler collection of minerals have been carefully classified and arranged by Prof. Beck, in a large number of cases for the different sections of the museum, so as to make this department of great value in the service of scientific study.

Academy Buildings.—Two buildings are used by the Academy. The main building was completed in 1908 at a cost of about $100,000. It is 215 feet long, has two wings, 40x75 feet and a chapel seating 350 boys.

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Endowment Funds.—The General Education Board, of New York City, has given splendid recognition to the work of Franklin and Marshall College by offering a pledge of $50,000 to the Endowment Fund of the institution on condition that the authorities of the College secure, by subscription or cash, the sum of $308,512.51. The Alumni and friends of the College are making generous response to meet this requirement. This large addition to the endowment funds of the College will insure a high efficiency of work.

GENERAL INFORMATION

RELIGIOUS OBSERVANCES

The students are confronted with the claims of Christianity in its most concrete and living form. A large proportion of the students are communicant members of the Church, and a Christian spirit underlies and animates the instruction in the different departments.

Church Services.—There is a regularly organized Christian congregation in the institution (St. Stephen's Reformed Church), the members of which are the students, the professors and their families, together with some families in the vicinity not directly connected with the College. The clerical members of the faculties serve as pastors, while the other officers are selected from the members of the congregation. A regular service is held in the College Chapel Sunday morning at 10:30 o'clock during the college year and every Wednesday afternoon in Lent, and the Sacrament of the Lord's Supper is observed four times a year.

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All students are required to attend the Sunday service except the sons of parents who reside in Lancaster, or who belong to denominations other than that of the Reformed Church in the United States. To such persons permission is given to attend churches of their choice at the *special or written request of their parents or guardians, renewed each year.*

Morning Prayers.—All students are required to attend a service each morning of the week, except Saturday, in the College Chapel at nine o'clock, conducted by the President.

A prayer service is held under the auspices of the Young Men's Christian Association each Sunday evening.

COLLEGE ORGANIZATIONS

Young Men's Christian Association.—The College has a flourishing Young Men's Christian Association which is devoted to the sustaining and extension of religious life among the students. Meetings are held each Sunday evening when an appropriate address is delivered by a minister or Christian layman of the College or city, and classes are formed for the study of missions. The association seeks to be of practical benefit to the development of Christian character and to render service to the students. It publishes at the beginning of each college year a Students' Hand Book, containing a map of Lancaster and useful information concerning the work and activities of the College.

Literary Societies.—Two literary societies, Diagnothian and Goethean, are maintained by the stu-

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dents, who own their society halls, which are beautifully furnished. Each society meets every Friday evening of the collegiate year. Membership is not compulsory, but is desired and encouraged by the faculty. These societies have had a flourishing existence for seventy-five years and are of great value for the intellectual development of the student. They maintain and publish the *College Student* as their literary organ.

Society membership is one of the qualifications for those who compete for various prizes offered by the College, as well as for admission to the Phi Beta Kappa graduate fraternity.

The Thomas C. Porter Scientific Society meets fortnightly and affords opportunity for the cultivation of interest and research in scientific studies. Several members of the faculty direct its operations.

Nevin Club.—This organization is named after the great theologian, Dr. John Williamson Nevin, a former president of Franklin and Marshall College, and is composed of students who intend to study for the ministry. It affords opportunity for association of those having a common aim in college work and is a constant appeal to all students for recognition of the claims of the service of the Christian ministry.

Fraternities.—Four national Greek Letter Fraternities have chapters and live in their own houses. These organizations work for the best interests of the College and take a prominent part in all its activities.

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Phi Beta Kappa.—The college has a chapter in the Phi Beta Kappa fraternity, to whose membership the honor men of each graduating class are elected. Under its auspices each commencement week an address is delivered by some distinguished scholar.

Social Clubs.—There are a number of local boarding clubs of a social and fraternal nature.

Musical Clubs.—The Glee and Mandolin Clubs render concerts at various places during the winter and spring months.

Dramatic Club.—The Green Room Club presents a play each year in Fulton Opera House in Lancaster. All students are eligible to membership. Selection is made by trial.

Senate.—The Senate, composed of twelve students, has direction and supervision of various activities and deportment of student life. The members are selected by their fellow students.

Press Club.—The object of this club is to afford actual work in correspondence with daily papers in the state.

ATHLETICS

Ample facilities are afforded for athletic purposes, and all proper encouragement is given for the maintenance of athletic sports. Athletic matters are in the hands of the Athletic Association, to which all students belong. A Board of Governors appointed each year has supervision of all athletics. The college is a member of "The National Athletic Association of the United States." A graded course of physical training, under a competent instructor,

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is required in the Freshman and Sophomore years. A thorough physical examination is required and care is given to those who participate in athletic contests.

PUBLICATIONS

The College Student, founded in 1879, is published monthly during the college year under the auspices of the Diagnothian and Goethean Literary Societies. It is devoted to the development of literary activity among the students. A prize is offered each year to the student who contributes the best original piece of fiction.

The F. and M. Weekly reports the news of college work and life and aims to mould proper college spirit.

The Oriflamme is the college annual published by the Junior Class. It is illustrated and intended to present a summary of student life during the current scholastic year.

The College Calendar is issued by the Sophomore Class.

The Nevonian is an annual published by the Senior Class containing the program and addresses of Class-Day.

The Obituary Record contains sketches of all alumni who died during the year and is printed annually by the Alumni Association.

The *Students' Hand Book* contains information especially valuable to new students. It is compiled by the Young Men's Christian Association.

The *Catalogue* is issued annually and gives information about the College as a whole and the register of students.

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ALUMNI ASSOCIATIONS

The Alumni of the College have an associaton, the object of which is to keep alive the sentiment of affection for their Alma Mater, and to unite the graduates of successive years by a common tie of fellowship. Its meetings are held annually during commencement week. Various district alumni associations maintain organization by holding at least one meeting each year and tend to keep up and give practical shape to the interest felt by the alumni in the well being of the College.

DEGREES

The College confers the degrees of Bachelor of Arts, Bachelor of Philosophy and Bachelor of Science upon graduation on those who satisfactorily complete the full courses of study as outlined in the catalogue.

ADVANCED DEGREES

The degree of Master of Arts is conferred upon those who have received the degree of Bachelor of Arts from a reputable college and who have satisfactorily completed a prescribed course of study according to the general regulations governing graduate study. The degrees of Master of Philosophy and Master of Science are similarly conferred upon the holders of the corresponding bachelor's degrees. These graduate courses may be pursued either in residence or *in absentia* subject to the regulation that scientific courses can be pursued *in absentia* only where the student has access to laboratory or observatory.

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Further particulars may be obtained by application to Prof. A. V. Hiester, Registrar of Graduate Courses.

COLLEGIATE YEAR

The collegiate year consists of two semesters. The first begins thirteen weeks after the Annual Commencement, and continues until the last week in January, including the Christmas recess of two weeks; the second begins immediately after the close of the first and continues until Commencement.

REPORTS

At the end of each semester the grade of each student in each course taken by him is recorded by the secretary. A report of his standing is then transmitted to his parent or guardian.

EXPENSES

Each student is charged a contingent fee of eighty dollars. This amount includes fees for Library and Reading Room, Laboratory and Gymnasium. It is payable in installments, as follows: five dollars on registration, forty dollars for the first semester and thirty-five for the second, within ten days from the beginning of each. An additional fee of one dollar is charged to those who fail to register at the time specified.

Any student failing to make payment within the required time, unless specifically excused, will suffer the loss of college privileges, and notice of such deliquency will be sent to parents or guardians.

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A graduation fee of five dollars is charged all students taking the bachelor's degree.

At the beginning of the year students are required to deposit fifty cents for a locker key in the gymnasium, one dollar for a locker key in the laboratories and sums varying from five to fifteen dollars to cover the expense of breakage in the laboratories or to pay for expensive material used in their work. These sums, or the unexpended balances, are returned at the end of the year.

The student's personal expenses are determined largely by his habits and tastes, and are limited by his power of self control. Board and room are obtained in clubs at an average cost of $3.50 a week. In private families it varies from $4.00 to $5.00 a week.

ANNUAL PRIZES

A gold medal is awarded to the member of the Senior Class who passes the most satisfactory examination in the German language. This prize has been permanently endowed by R. K. Buehrle, Ph. D., former Superintendent of Public Schools of Lancaster City.

A gold medal is given to the member of the Junior Class who is successful in competition at the Junior Oratorical Contest. This is called the Wetzel Oratorical Prize and has been endowed by J. W. Wetzel, Esq., Carlisle, Pa.

Two prizes are awarded to members of the Senior Class who shall be judged to hold first and second places in a Senior Prize Debate.

William H. Keller, Esq., of Lancaster City, has

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offered an annual prize of twenty-five dollars to be awarded at the end of the Sophomore year to the student who has made the best record in the study of Latin and Greek during the Freshman and Sophomore years.

Prof. H. E. Slagen, A.M., of Lancaster City, offers an annual prize of ten dollars for proficiency in Greek to members of the Junior Class.

There are two prizes offered by both the Diagnothian and Goethean Literary Societies in an oratorical contest for members of the Sophomore and Freshman classes.

Mr. Jack L. Straub, of Lancaster, provided a one hundred dollar scholarship to an advanced student in biology, to be designated by the professor of that department, for special vacation work at one of the marine biological laboratories.

REQUIREMENTS FOR ADMISSION

Students are admitted by certificate and on examination. In all cases they must present satisfactory testimonials of good moral character, and, if from other colleges, evidences of honorable dismissal.

It is desired that all applications be filed as early as possible.

Applications for admission to advanced standing in the college will not be received later than the opening of the Senior year.

CERTIFICATES

Students are received by certificate from approved schools and academies whose course of

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study fully covers the requirements for admission. The certificates must state the text-books used in preparation, and the exact amount of work done in each study, as specified in the blank forms furnished by the College and sent to the College direct from the principal of the preparatory school.

Certificates of the College Entrance Examination Board will be accepted.

EXAMINATIONS

Examinations for admission are held during commencement week and the week of the opening of the college year. Students applying for admission to advanced classes will be examined on both the preparatory work for entrance to college and on the studies previously pursued by the classes they propose to enter.

ADVANCED STANDING

No student will be admitted to advanced standing later than the beginning of the Senior year. Students who come from another college must present full credentials for both college and preparatory work and a letter of honorable dismissal, to receive credit for an equivalent amount upon the records of the College. Others will be received at the discretion of the Committee on Admission or by examinations held only at the College.

SPECIAL COURSES

Students, not candidates for degrees, may be permitted to pursue special courses, for proficiency

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in which certificates may be granted; but this permission will be granted only to students of ability and character sufficient to insure their success. They may become regular students by completing all the work required in the number of courses for full standing in any year.

SUBJECTS FOR ADMISSION

For admission without condition the candidate must secure credit for 14½ units, a unit representing a year's work in a secondary school with four or five periods a week.

A.B. DEGREE.—Candidates for the A.B. degree must present Latin, 4 units, English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, History, 1 unit, making a total of 10½ units. The remaining units to make up a total of 14½ may be selected from any of those specified below, including 2 units in either Greek or German.

PH.B. DEGREE.—Candidates for the Ph.B. degree must present Latin, 4 units, English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, Advanced Algebra, ½ unit, History, 1 unit, making a total of 11 units. The remaining units to make up a total of 14½ may be selected from any of those specified below, including 1 unit of Science and 2 units of German or French.

B.S. DEGREE.—Candidates for the B.S. degree must present English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, Advanced Algebra, ½ unit, Elementary Science, 1 unit, History, 1 unit, making a total of 8 units. The remaining units to make up a total of 14½ may be

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selected from any of those specified below, including 4 units in foreign languages, of which 2 must be in German or French.

SCALE OF VALUES

	UNITS.
English,	3
Latin, 2 years,	2
3rd year,	1
4th year,	1
Greek, 1 year,	1
2nd year,	1
German, Elementary, 2 years,	2
French, Elementary, 2 years,	2
History—Ancient,	1
Mediæval and Modern	1
English,	1
American or Civil Government	1
Mathematics—Elementary Algebra,	1½
Plane Geometry,	1
Solid Geometry,	½
Advanced Algebra,	½
Plane Trigonometry,	½
Physics, Theoretical and Practical,	1
Chemistry, Theoretical and Practical,	1
Biology or Botany,	1
Physical Geography	1

ENTRANCE EXAMINATION REQUIREMENTS

ENGLISH.

The requirements in English are those adopted by the Association of College and Preparatory Schools in the Middle States and Maryland.

Preparation in English has two main objects; (1) command of correct and clear English, spoken and written; (2) ability to read with intelligence and appreciation. The candidate will be required

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to present evidence of a general knowledge of the subject matter, and to answer simple questions on the lives of the authors as specified below. The form of examination will be the writing of a paragraph or two on each of several topics to be chosen by the candidate from a considerable number set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. The essentials of English Grammar are presupposed, and no candidate will be accepted whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs.

For 1913.—Shakespeare's *As You Like It* and *Julius Cæsar;* Franklin's *Autobiography;* Goldsmith's *The Deserted Village*; Scott's *Ivanhoe;* Irving's *Sketch Book;* Lamb's *Essays of Elia;* Scott's *The Lady of the Lake;* Longfellow's *The Courtship of Miles Standish.*

For 1914.—Shakespeare's *The Merchant of Venice* and *Midsummer Night's Dream;* Old Testament, *Daniel;* Goldsmith's *The Vicar of Wakefield;* Dickens' *David Copperfield;* Stevenson's *Treasure Island;* Thoreau's *Walden;* Lowell's *The Vision of Sir Launfel;* Gray's *Elegy in a Country Churchyard.*

LATIN.

Cæsar, The Gallic War, Books I–IV. *Cicero*, six orations (orations against Catiline, for the Manilian Law and For Archias). *Vergil*, six books of the Aeneid. Simple exercises in Latin prose composition.

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The chief aim of the examination will be to test the candidate's knowledge of the subject matter, vocabulary, grammatical forms and constructions. This will also be expected from the showing of certificates of admission.

GREEK.

First Greek Book. *Xenophon*, Anabasis, books I-IV. Fifty Exercises in elementary prose composition.

GERMAN.

Such knowledge of the language is required as will indicate a thorough acquaintance with the grammar and as may be obtained by the reading of at least 200 pages. The examination covers the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

MATHEMATICS.

Algebra A.—To Quadratics. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems depending on linear equations.

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Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

Algebra B.—Quadratic equations, both numerical and literal. Simple cases of equations, with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the *n*th term and the sum of the terms of arithmetical and geometric progressions with applications. (Well's University Algebra to Section XXXI, or Robinson's University Algebra to Chapter VI.)

Advanced Algebra C.—Progressions, permutations and combinations, binomial theorem, series, logarithms and theory of equations.

Plane Geometry.—The usual theorems and constructions of good text books, including the general properties of plane rectilinear figures, the circle and measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces. (Wentworth's five books.)

Solid Geometry.—The usual theorems and constructions of good text books, including the relations of planes and lines in space; the properties and measurements of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration

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of surfaces and solids. (Wentworth's Solid Geometry.)

HISTORY.

(*a*) *Ancient History*, with special reference to Greek and Roman history, including also a short introductory study of the more ancient nations and the chief events of the early Middle Ages down to the death of Charlemagne (814).

(*b*) *Mediæval and Modern History*, from the death of Charlemagne (814) to the present time.

(*c*) *English History.*

(*d*) *American History or Civil Government.*

Candidates for admission will be given credit for not more than two units in History.

SCIENCE.

Elementary Physics.—The careful study of a standard text book, for the purpose of obtaining a connected and comprehensive view of the subject, covering mechanics, sound, heat, light and electricity. About thirty individual experiments in the laboratory.

Elementary Chemistry.—A course of at least sixty experiments performed by the pupil and accompanied by systematic instruction in the common elements and their compounds, including chemical equations, the simple gas laws, and the fundamental atomic and molecular theories.

Zoology.—A course covering the work of one year, including the dissection of types of the most important groups of the animal kingdom and a

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study of the principles of the morphology, physiology, and classification of animals.

Botany.—The applicant will be expected to have a fairly definite knowledge of the seed and seedling, root, stem, and leaf, the flower and fruit, the cell, and to know something about physiological processes, ecology, and the natural history or classification of plants.

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COURSES OF INSTRUCTION

General Statement

Franklin and Marshall College aims to offer to the student an opportunity to secure such general culture as may tend to develop him into a useful citizen without preparing him for any special profession; to enlarge his scholarship, broaden his views and arouse an intelligent interest in all that is best in modern civilization. The course is based upon such intellectual discipline as has been established by centuries of testing as well as by channels opened up by modern scholarship whose value has been proved equal to that of any agencies employed in the past. Choice of electives is given to the student under such restriction as to secure reasonable breadth for the foundation on which his education is to be built.

The College offers three general courses of study leading to the three degrees of A.B., Ph.B. and B.S.

The A.B. course requires the pursuit of the ancient languages, Latin and Greek, for two years, and one of them for one year more. An exception in this requirement is made in the case of students who begin Greek in college and who are required to take four years of Greek. The A.B. course also includes four years of modern languages, leaving room for choice between German and French.

The Ph.B. course includes two years of Latin with

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three years of German and two years of French. In science study, this course is resolved into three different groups, viz., (1) one year of chemistry and three years of biology; (2) one year of biology and three years of chemistry; (3) one year of biology and one year of chemistry, with either calculus and advanced analytical geometry or applied electricity and physical measurements.

The B.S. course includes two years of German and French, and one of them for one year more. The course is resolved into two groups, allowing choice in biology or chemistry.

The minimum number of hours of recitation or lectures required in each class is, Freshman, 17; Sophomore, 17; Junior, 16; Senior, 15. No student shall be permitted to take more than the minimum except by special permission and no student shall be allowed in any case to take more than 21 hours, including conditions and substitutions. No substitute may be taken for a required study except upon consent of the professor concerned and upon formal action of the faculty. Two hours of laboratory work count as one hour of recitation. Hygiene and physical exercise are compulsory in the Freshman and Sophomore classes in addition to the above requirements.

PHILOSOPHY

PROFESSOR STAHR

The course of instruction in this department has two ends in view: To familiarize the student with the methods of philosophic thought and discipline

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the mind in thinking so as to look for the ultimate ground of knowledge; and to give him such a view of himself and of his relation to society, to nature and to God, that he will be able to correlate all the branches of learning in a system of liberal culture.

(*a*) PHILOSOPHY OF HISTORY.—A course of lectures with oral and written recitations. Sophomore elective. One hour a week; second semester.

(*b*) PSYCHOLOGY.—The study of Psychology takes up the study of the nervous system and its relation to consciousness. Angell's Psychology, with free lectures and recitations. Junior requirement. Three hours a week; first semester.

(*c*) ÆSTHETICS.—A course of lectures on Æsthetics, outlining the theory of the beautiful with its modifications, the sublime and the comic. Afterwards the class studies the application of æsthetic principles in the development of art. Junior requirement. Two hours a week; second semester.

(*d*) ETHICS.—A course of lectures. The first part is devoted to Metaphysical Ethics, including a discussion of the nature of Freedom and the Formation of Character. The second part, or Practical Ethics, treats of the nature of Virtue, Duty and the Good, and the differentiation of the latter in the forms of Right, Social Cointegration and Religion. The lectures are accompanied by recitations, free discussions and essay writing. Senior requirement. Two hours a week throughout the year.

(*e*) PEDAGOGY.—Includes the study of Philosophy of Education and History of Education, as well as the practical application of Pedagogic Principles. This course is important, not only to students who

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expect to teach, but also to others who desire a thorough grounding in the principles of true education and culture. Senior elective. Two hours a week throughout the year.

(*f*) LOGIC.—An optional course open to Juniors and Seniors. Two hours a week; second semester.

GREEK

PROF. HELLER. PROF. SCHAEFFER

The study of Greek is required of all candidates for the degree of Bachelor of Arts. Courses are offered for two classes of students: (1) those who enter with full credit for the preparatory work in Greek, and (2) those who begin Greek in the college. The former are required to take Courses *c* and *d;* and, in addition, Course *e* or Course *g* is required of those who do not elect one year of Latin after the Sophomore year. Students who begin Greek after entrance are required to take Courses *a, b, d,* and *g* or *e.*

The purpose aimed at in the department is to give the student such a mastery of the accidence and syntax of the language and such command of its vocabulary as will enable him to read simple Attic Greek with some degree of rapidity and ease, and at the same time to make him acquainted with Greek literature in all of its principal divisions, as illustrated by the works of its greatest writers, as well as familiar with the customs and institutions of the Greek people.

(*a*) ELEMENTARY GREEK.—First Greek Book (White). Anabasis, begun (Goodwin and White).

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Freshman A.B. requirement for those who enter without Greek. Four hours a week throughout the year.

(*b*) SECOND YEAR GREEK.—Anabasis, continued to end of Book IV. Homer, Iliad, XVI ff. (Leaf and Bayfield, Vol. 2), or Odyssey, IX ff. (Merry). This course is designed to fit the student to take up Course *d*. Sophomore A.B. requirement for those who have completed Course *a*. Three hours a week throughout the year.

(*c*) Xenophon, Hellenica (Brownson). Greek prose composition. Herodotus, VIII (Smith and Laird). Homer, Iliad, XVI ff. (Leaf and Bayfield, Vol. 2). Freshman A.B. requirement for those who have credit for the preparatory work in Greek. Four hours a week throughout the year.

(*d*) Homer, Iliad, finished. Plato, Apology (Stock). Euripides, Alcestis (Jerram). Required of Sophomores who have completed Course *c* and of Juniors who have completed Course *b*. Three hours a week throughout the year.

(*e*) GREEK DRAMA.—Æschylus, Prometheus Bound. Sophocles, Œdipus Rex. Aristophanes, Frogs. Lectures on the history of the Greek drama and theatre. Elective. Open to Juniors who have had Course *d*, and by special permission to others. Two hours a week throughout the year.

(*f*) LYRIC GREEK.—Pindar, Olympian and Pythian Odes. Theocritus, Idylls. Elective. Open to those who have had Course *e*. Two hours a week throughout the year.

(*g*) Demosthenes, Oration on the Crown. Thucydides, VI–VII. Required of Seniors who began

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Greek in their Freshman year. Open to others. Two hours a week throughout the year.

(*h*) NEW TESTAMENT GREEK.—This course consists of a study of the characteristics of the language of the New Testament, the careful reading of the Gospel according to St. Mark and of one of the Epistles of St. Paul, and frequent reports prepared by members of the class. Each student is expected to own Nestle's Novum Testamentum Graece et Latine, and to make constant use of books reserved at the Library. Senior elective. One hour a week throughout the year.

LATIN

PROF. MULL. PROF. SCHAEFFER

The course in Latin is arranged to be in harmony with the general purpose of a four-year college course and it is taught and studied with the view to secure the best results attainable within these limits. The disciplinary value of the study is held to be of prime account. Constant stress is laid upon the requirements of close, careful and painstaking study in the preparation of the lessons assigned. Upon this presumption the class-room instruction proceeds, with steady reference to the needs and benefits of the largest number. The quality of the work done is rated above the quantity of ground covered. The aim is to afford every student the amplest opportunity to acquire a knowledge and free use of the means and methods of translation and interpretation; to form correct habits of study, and thus to furnish him with the equipment that is believed to be

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essential in any serious effort to gain conscious mastery of the subject in whole or in part. The literary values are not underestimated, but they are not made the subjects of technical instruction or the objects of critical study. They are used rather as stimulants for the quickening of the student's own powers of perception and appreciation of literary values in general, and as silent working factors in the process of mental culture. Here the aim is to nourish development from within by the cultivation of the literary feeling based on correct standards, thus placing within reach of the student an acquisition that is susceptible of indefinite enlargement.

(*a*) LIVY.—Horace Odes. Freshman A.B. and Ph.B. requirement. Three hours a week throughout the year.

(*b*) Exercises in prose composition. Freshman A.B. requirement. One hour a week throughout the year.

(*c*) HORACE, Odes finished; Satires and Epistles; Juvenal's Satires. Sophomore A.B. and Ph.B. requirement. Three hours a week throughout the year.

(*d*) CICERO DE ORATORE (or De Officiis); Pliny's or Cicero's Select Letters. Junior elective. Two hours a week throughout the year.

(*e*) THE HISTORIES OF TACITUS.—A critical study of the text, with collateral study of the Roman History writers. Senior elective. Two hours a week; first semester.

(*f*) A STUDY OF THE ROMAN DRAMA AND DRAMATIC LITERATURE, with lectures, and readings in

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Plautus and Terence; or selections from the Latin Fathers and Latin Hymns. Senior elective. Two hours a week; second semester.

(*g*) LATIN PROSE WRITING.—Senior elective. One hour a week throughout the year.

MODERN LANGUAGES

PROFESSOR DIPPELL

The first two years of modern language study are devoted to the acquirement of a working knowledge of the language itself, while the higher courses emphasize the study of the literature. Drill in pronunciation and the careful study of grammar begin the course, and the translation of easy texts is taken up as early as possible, thus laying the foundation for a working vocabulary. The work is progressively arranged throughout the course, grammar study leading up to syntax and advanced composition, while modern texts are followed by the works of the great writers of the eighteenth century, and instruction in special topics is given, ending in a general view of the literature.

The foreign language is used in the class-room as far as practicable, and an effort is made to train the student to express himself correctly in simple language, although it is realized that the ability to speak a modern language freely requires far more practice than can be had in a brief college course.

GERMAN

(*a*) COURSE FOR BEGINNERS.—Pronunciation, composition and dictation. Students are thorough-

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ly drilled in the fundamentals of the language—declensions, conjugations and simple syntax. Some easy text is read near the close of the second semester. Freshman requirement for those who do not offer German for entrance. Two hours a week throughout the year.

(*b*) ADVANCED FRESHMAN GERMAN.—Grammar, composition and translation. For those Freshmen who have passed the entrance requirements in German. Two hours a week throughout the year.

(*c*) SOPHOMORE GERMAN.—Reading and translation of modern German texts. Specific drill in pronunciation, syntax and composition. Required study. Two hours a week throughout the year.

(*d*) JUNIOR GERMAN.—Reading of a play of Schiller's; special endeavor is made to get the German point of view in the drama read. A play of Lessing or one of Goethe's works is read. Advanced prose composition. Ph.B. and B.S. requirement; A.B. elective. Two hours a week throughout the year.

(*e*) GOETHE'S FAUST.—Reading and translation of Faust; discussions on topics suggested by the play; structure of the drama. Lectures on the rise and development of the German theatre. Senior elective. Two hours a week, first semester.

(*f*) LECTURES ON GERMAN LITERATURE.—Complementary course to (*e*). Senior elective. Two hours a week, second semester.

(*g*) GERMAN CONVERSATION.—Open only to Seniors during the second semester. One hour a week. No other language is used in the class-room.

(*h*) SCIENTIFIC GERMAN.—A course of reading

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in works covering a broad field of scientific and literary topics. Senior elective. One hour a week throughout the year.

FRENCH

(*a*) FIRST YEAR FRENCH.—Drill in the fundamentals of the language. Pronunciation, dictation and translation from English into French. Simple syntax and composition. Reading of some simple modern text. Freshmen Ph.B. and B.S. requirement; Freshman and Junior A.B. elective. Two hours a week throughout the year.

(*b*) SECOND YEAR FRENCH.—Grammar, composition and advanced syntax. Reading of several French plays. Sophomore Ph.B. and B. S. requirement; Sophomore and Senior A.B. elective. Two hours a week throughout the year.

(*c*) FRENCH PROSE AND POETRY.—Selections from such authors as Corneille, Racine, Moliere, Victor Hugo, Balzac, Daudet, Lati, etc., are read. Open only to students who have successfully completed courses (*a*) and (*b*).

ENGLISH

PROFESSOR PORTER

In the courses outlined below, the Department of English aims at three objects: (1) An intelligent understanding of the origin and development of the English Language and Literature; (2) a general acquaintance with English Literature; (3) a reasonable proficiency in English Composition; (4) a compre-

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hensive knowledge of some of the great periods in English Literature.

(*a*) COMPOSITION; EXPOSITION.—Weekly themes; reading in standard authors. Each student is required to own a complete copy of Shakespeare, a King James version of the Bible, and a copy of Woolley's HANDBOOK OF COMPOSITION. Freshman requirement. Two hours a week; first semester.

(*b*) CONTINUATION OF COURSE *a*.—Description and narrative. Further reading in Keats, Poe, Hawthorne, Stevenson, Scott and others. Freshman requirement; second semester.

(*c*) A survey of English Literature from the time of the Anglo-Saxons to the present day. Reading of Chaucer's Prologue; Spenser's Faery Queen, Book 1; a History, a Comedy, and a Tragedy of Shakespeare; Milton's Paradise Lost, Books I–III; and as many of the selected works of the poets and prose writers of the eighteenth and nineteenth centuries, as time will permit. Essays on the authors and their works. Each student is required to own Moody and Lovett's HISTORY OF ENGLISH LITERATURE and the prescribed texts. Sophomore requirement. Two hours a week throughout the year.

(*d*) THE ENGLISH DRAMA.—Rise and development; a study of the Mysteries, Moralities, and Interludes; works of the predecessors of Shakespeare. Each student is required to own Manly's SPECIMENS OF THE PRE-SHAKESPEAREAN DRAMA and the works of Marlowe. Junior A.B. and Ph.B. requirement. Two hours a week; first semester.

(*e*) CONTINUATION OF COURSE *d*.—Which is prerequisite. Shakespeare; a critical study of as many

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of his plays as time will allow; the development of his dramatic art. Junior A.B. and Ph.B. requirement. Two hours a week; second semester.

(*f*) A STUDY OF THE ROMANTIC MOVEMENT IN ENGLISH LITERATURE.—The works of the following poets are read: Pope (as a representative of eighteenth century literature), Cowper, Burns, Wordsworth, Byron, and Shelley. Essays in literary criticism. Senior A.B. and Ph.B. requirement. Two hours a week throughout the year.

(*g*) THE VICTORIAN ERA.—A critical study of the works of Tennyson, Browning and Carlyle. Essays on selected topics. Senior elective. Two hours a week throughout the year. (Omitted in 1912–1913.)

(*h*) A literary and critical study of six plays of Shakespeare. Senior elective. Two hours a week throughout the year.

ENGLISH BIBLE

PROF. STAHR. PROF. APPLE.

The study of the English Bible is based on the conviction that a knowledge of its historical facts, literary forms, modes of thought, and above all, of its ethical and religious teachings, is an essential element of all true culture. The work extends over two years, one hour a week and is required of all students unless excused for conscientious reasons.

(*a*) THE ACTS OF THE APOSTLES AND THE EPISTLES. Juniors.

(*b*) OLD TESTAMENT HISTORY. Seniors.

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HISTORY

PROFESSOR KLEIN

The Department of History has a two-fold aim: (1) To give the student a comprehensive survey of the development of Western Europe, it offers in the Freshman and Sophomore years a general course in European History from the decline of the Roman Empire to the end of the nineteenth century; (2) to familiarize the student with the methods of modern historic scholarship as found in the use of sources and the weighing of precise problems of research and criticism, it offers in the Junior and Senior years more detailed courses on particular periods in European and American History. In all the courses offered, the subject comprises lectures, supplementary reading, the writing of essays and the study of selected historical documents.

(*a*) INTRODUCTORY COURSE IN MEDIÆVAL HISTORY.—This course is devoted to the study of the more important movements and epochs in European History since the fall of Rome, such as, the Barbarian Invasion, the rise and development of the Mediæval Empire, the growth and importance of the Mediæval Church, Mohammedanism, the Crusades, Feudalism, and other characteristic phenomena of the period. Thatcher, A Short History of Mediæval Europe, and Ogg's Source Book of Mediæval History. Freshman A.B. and Ph.B. requirement. Two hours a week; first semester.

(*b*) GENERAL HISTORY OF EUROPE FROM THE END OF THE THIRTEENTH TO THE BEGINNING OF THE SIXTEENTH CENTURY.—The Renaissance; the rise of

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cities; the rise of the modern nations; preparation for the Reformation. Lodge, The Close of the Middle Ages. Freshman A.B. and Ph.B. requirement. Two hours a week; second semester.

(*c*) GENERAL HISTORY OF EUROPE FROM THE OPENING OF THE SIXTEENTH CENTURY TO THE FRENCH REVOLUTION.—The Reformation will be considered in its relation to all the larger problems of modern history. The course will also include a study of the Humanists; the Counter-Reformation; the Independence of the Dutch; the Thirty Years' War; The Ascendancy of France; The Rise of Prussia and Austria; the Balance of Power in Europe. Lectures, assigned readings and discussions.

Schwill's Political History of Modern Europe. Robinson's Readings in European History, Volume II. Sophomore A.B. requirement. Elective for others. Two hours a week; first semester.

(*d*) REVOLUTIONARY EUROPE.—The institutions of the old regime in France; the causes and courses of the French Revolution; the effects of the French Revolution upon other countries of Europe; Napoleon and the Napoleonic Wars; the overthrow of Napoleon and the Treaties of Paris. Lectures, assigned readings, discussions and the preparation of short monographs. Schwill's Political History of Modern Europe. Mathew's The French Revolution. Sophomore A.B. requirement. Elective for others. Two hours a week; second semester.

(*e*) AMERICAN HISTORY—The foundation of the Union, 1750–1829; expansion of English Colonies; rivalry of French and English; the causes of the Revolution; the organization of the government

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under the constitution; the development of national self-consciousness; social, economic and political re-organization. Lectures, collateral reading, preparation of monographs, discussion of theses on the basis of secondary sources. Hart's Formation of the Union. Hart's American History Told by Contemporaries. Junior elective. Two hours a week; first semester.

(*f*) AMERICAN HISTORY.—Division and Reunion from 1829–1910, with special reference to the Civil War, and Reconstruction; also later United States History, including the new problems of the last quarter of the century. Lectures, assigned reading, preparation of essays based on original research. Division and Reunion, by the Hon. Woodrow Wilson, Ph.D. Select documents of United States History, by W. MacDonald. Junior elective. Two hours a week; second semester.

(*g*) HISTORY OF MODERN PHILOSOPHY.—A course devoted to the history of the development of thought from Bruno to Spencer. Lectures, assigned readings and discussions. The course aims not only at a description of philosophical systems, but emphasizes required reading of selections from the works of the great philosophical masters themselves. Weber's History of Philosophy. Rand's Modern Classical Philosophers. Junior elective. One hour a week throughout the year.

(*h*) EUROPEAN HISTORY IN THE NINETEENTH CENTURY.—This course aims to present the most important developments in the history of European countries since 1815. The reaction in Europe after the overthrow of Napoleon; the reconstruction of

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Germany; Greek Independence; Revolutions of 1830 and 1848, etc. Lectures, discussions, assigned reading, and preparation of monographs. Hazen's Europe since 1815. Senior elective. Two hours a week; first semester.

(*i*) EUROPEAN HISTORY SINCE 1848.—Napoleon III and the Crimean War; the Union of Italy; the Founding of the German Empire; the Franco-German War; the British Empire in the Nineteenth Century; the Rise of the Balkan States; Industrial Revolution in Russia; the Eastern Question; the Expansion of Europe in Asia and Africa; features of modern progress and a practical study of comparative contemporary political problems. Lectures, collateral readings and the preparation of monographs on the basis of research. Hazen's Europe Since 1815. Senior elective. Two hours a week; second semester.

(*j*) PREHISTORIC ARCHÆOLOGY.—Lectures with collateral reading. The course embraces the study of the earliest human records and their interpretation; the evidences of man's antiquity, social life of primitive man; theories of language, primitive arts, industries and religions. Keary's Dawn of History. Senior elective. One hour a week; first semester.

(*k*) HISTORIC ARCHÆOLOGY.—This course embraces the history of the origin and development of the fine arts. Lectures are also devoted to the minor archæological sciences. Brown's The Fine Arts. Reinach's Apollo. Senior elective. One hour a week; second semester.

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POLITICS

PROFESSOR HIESTER

(*a*) AMERICAN CIVIL GOVERNMENT.—A general survey of civil government in the United States, which presupposes an elementary knowledge of the Federal Constitution, and includes a study of the origin, development and practical workings of the national government, a description of the state governments and their relation to the national government, an examination of the various forms of local and municipal government, and a brief account of the history, policies and machinery of political parties. The course is designed particularly for the needs of those who do not expect to take any advanced work in Politics. Beard's American Government and Politics. Sophomore elective. Two hours a week throughout the year.

(*b*) GENERAL POLITICAL SCIENCE.—An analytical and historical examination of the modern state. The main topics considered are the nature and origin of the state, the forms of the state, the attributes of sovereignty, the theories of state functions, the scope and content of individual liberty, the forms of government, the structure of the governments of the most important modern countries, and the place of political parties in the mechanism of government. Garner's Introduction to Political Science. Sophomore elective. Two hours a week throughout the year.

(*c*) AMERICAN CONSTITUTIONAL LAW. — This course is designed to give a knowledge of the general principles of the constitutional law of the United

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States. The growth and development of the Federal Constitution through judicial interpretation is carefully observed, and the more important decisions of the Supreme Court are studied. McClain's Constitutional Law in the United States. Two hours a week throughout the year. Open to Juniors and Seniors who have had course (*b*). Given only in alternate years. Omitted in 1913–1914.

(*d*) INTERNATIONAL LAW.—A study of the nature, history, subjects and sources of international law, with particular reference to the history and character of American diplomacy, and the part played by the United States in the development of modern international law. Lawrence's Principles of International Law. Two hours a week throughout the year. Open to Juniors and Seniors who have had course (*b*). Given in alternate years. Omitted in 1912–1913.

ECONOMICS

PROFESSOR HIESTER

(*a*) GENERAL ECONOMICS.—An introductory course designed for the needs of the general student and embracing, in addition to a comprehensive study of the principles underlying the production, exchange, distribution and consumption of wealth, a rapid survey of the evolution of economic society, and a brief history of economic thought. Bullock's Introduction to the Study of Economics. Two hours a week throughout the year. Junior A.B. and Ph.B. requirement.

(*b*) MONEY AND BANKING.—A critical examination of the problems presented by modern banking

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and monetary systems, the nature and functions of money, primary and secondary standards of values, prices and credit, domestic and foreign exchange, bank currency, the various systems of commercial banking, the theory and history of bi-metallism. White's Money and Banking. Two hours a week; first semester. Senior elective.

(*c*) PUBLIC FINANCE.—A systematic study of the financial problems of the modern state, the forms of public expenditure, the character and classification of public revenues, the various kinds of taxes, the justification and incidence of taxation, the nature of public credit, the forms of public indebtedness, and the principles of financial administration. Plehn's Introduction to Public Finance. Two hours a week; second semester. Senior elective.

SOCIOLOGY

PROFESSOR HIESTER

(*a*) GENERAL SOCIOLOGY.—An elementary course dealing with the structure and functions of contemporary society, the natural history of human society, the principles of social evolution, the conditions of social progress, and a brief survey of the history of sociological thought. Small and Vincent's Introduction to the Study of Sociology. Three hours a week; first semester. Senior elective.

(*b*) SOCIAL PATHOLOGY.—A course in Applied Sociology which has to do with the defective, dependent and delinquent classes. It considers the relation of the individual to society, the various

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causes of social abnormability, personal, social and industrial, the influence of heredity and environment, the conclusions which have been established with respect to the cure and prevention of social diseases. Smith's Social Pathology. Three hours a week; second semester. Senior elective.

MATHEMATICS

PROF. KERSHNER. PROF. APPLE.

(*a*) SOLID GEOMETRY.—Text: Wentworth's Plane and Solid Geometry. Freshman requirement. Three hours a week; first semester.

(*b*) ALGEBRA, including progressions, permutations and combinations, binomial theorem, series, logarithms and theory of equations. Text: Well's University Algebra. Freshman A.B. requirement. Three hours a week; second semester.

(*c*) DESCRIPTIVE GEOMETRY AND MECHANICAL DRAWING.—Freshman B. S. requirement; A.B. and Ph.B. elective. Two hours a week throughout the year.

(*d*) THEORY OF EQUATIONS, including determinants and complex numbers. Text: Barton. Freshman Ph.B. and B.S. requirement and A.B. elective. Three hours a week; first semester.

(*e*) TRIGONOMETRY, plane and spherical, including plane surveying. Texts: Granville's Plane and Spherical Trigonometry; Wentworth's Plane Surveying. Freshman B.S. and Ph.B. requirement, six hours in second semester. Sophomore A.B. requirement, three hours a week throughout the year.

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(*f*) ANALYTICAL GEOMETRY, including straight line, circle, parabola, ellipse and hyperbola, and loci of the second order. Text: Wentworth. Sophomore elective, and to those who have completed Trigonometry. Three hours a week; second semester.

(*g*) CALCULUS; differential, including the elements of differentiation and integration, Taylor's and Maclaurin's formulas, maxima and minima values of functions, tangents, normals, indeterminate expressions and curve tracing. Elective to Juniors and others who have had analytical geometry. Three hours a week; first semester.

(*h*) INTEGRAL CALCULUS continued, and differential equations with applications to problems in mechanics. Elective to those who have had elementary calculus. Three hours a week; second semester.

(*i*) ADVANCED ANALYTICAL GEOMETRY, including loci of second order, higher plane curves, and solid geometry. Junior elective and any who completed course (*f*). Two hours a week; first semester.

(*j*) COURSE IN MECHANICS with applications of the calculus suitable for students who expect to become engineers. Calculus required. Senior elective. Two hours a week throughout the year.

(*k*) COURSE IN DIFFERENTIAL EQUATIONS.—This course is suitable for students who wish to continue their course in pure mathematics or for engineering students who want to take advanced standing in engineering colleges. Courses (*g*) and (*h*) required. Elective. Second semester, one hour a week.

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PHYSICS

PROFESSOR KERSHNER

(*a*) PHYSICS with laboratory demonstrations. Mechanics, sound, light and heat. College Physics, Carhart. Sophomore B.S. and Ph.B. requirement. Required also of A.B. Juniors who do not take Chemistry. Three hours a week; first semester.

(*b*) PHYSICS with laboratory demonstrations, continued. Electricity and magnetism. Continuation of course (*a*). Three hours a week; second semester.

(*c*) PHYSICAL MEASUREMENTS IN MECHANICS AND HEAT.—Ames and Bliss. Junior B.S. requirement. Two hours a week; first semester.

(*d*) PHYSICAL MEASUREMENTS, continued, in heat, light, electricity and magnetism. Junior B.S. requirement. Elective for all who take, or have completed (*a*). Two hours a week; second semester.

(*e*) APPLIED ELECTRICITY.—This includes measurement of electromotive forces, resistances, capacities, magnetic properties of iron; and efficiency and characteristics of dynamos. Elective to Juniors or Seniors who have taken Mathematics (*f*) and Physics (*b*). Two hours a week throughout the year.

(*f*) THEORY OF ELECTRICITY.—Required for course (*e*). Junior and Senior elective. One hour a week throughout the year. This course is required in addition to (*a*) and (*b*) by those who want to enter university courses where four hours of General Physics is required.

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(*g*) APPLIED ELECTRICITY.—Advanced course. This course is a continuation of course (*e*) and takes up a series of laboratory measurements on alternating currents and photometry. Senior elective. Two hours a week throughout the year.

(*h*) THEORY OF ELECTRICITY.—Advanced course. Calculus required. This is a course of reading on alternating currents and is complementary to course (*g*). Senior elective. Two hours a week throughout the year.

ASTRONOMY

PROFESSOR APPLE

(*a*) PRACTICAL ASTRONOMY, with work in the Observatory on the problems of time, latitude, longitude and azimuth. Text: Doolittle. Also method of least squares. Elective for those taking Mathematics (*g*). Two hours a week; first semester.

(*b*) A continuation of course (*a*) with advanced work in the Observatory. Two hours a week; second semester.

(*c*) GENERAL ASTRONOMY. Text: Young. Junior and Senior elective to those who have had plane and spherical trigonometry and elements of physics. Three hours a week; first semester.

BIOLOGY

PROFESSOR SCHIEDT

The study of biology is of prime importance in a modern curriculum of liberal culture. Its aim is:

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(1) To present from a scientific standpoint the main facts relating to form, function and relationship of the best types of plants and animals; (2) to bring the student face to face with the modern methods of biological investigation both in the laboratory and in nature; (3) to enable the student who takes the full course to properly grasp the trend of modern thought that has grown out of these investigations and has influenced all departments of life and learning, especially that of philosophy and pedagogy; (4) to pay particular attention to the preparation of young men for the higher requirements of university courses in Biology, Forestry and Medicine. To students who want to prepare for any branch of Economic Zoölogy the museum is open with its library and collections. The curator offers special instructions to any one desiring such.

(*a*) GENERAL BIOLOGY.—An introductory course for beginners, including the study of the mechanism and use of the microscope, of plant and animal protoplasm, of the cell and its functions and of a few more complex types of plants and animals together with lectures on the history of the Science. Text: Sedgwick and Wilson's General Biology. Four hours laboratory work. Freshman B.S. (Biological group); Sophomore B.S. (Chemistry group) and A.B. requirement.

(*b*) INVERTEBRATE MORPHOLOGY.—Consists of introductory lectures, study of microscope, gross and microscopic dissection of about twenty types of invertebrates, and lectures and text-book studies on classification, habitat and phylogeny of the lower animals. Texts: Galloway's Text-book of Zoölogy.

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Sophomore Ph.B. and B.S. (Biological group), requirement. Five hours laboratory a week; first semester and part of second.

(*c*) VERTEBRATE ZOOLOGY.—Consists of lectures on the comparative organography of the vertebrates, special study of primitive vertebrates and the dissection of dog-fish, frog, pigeon and cat. Texts: Parker and Haswell, and Pratt's Laboratory Notes. Reference books: Parker and Haswell larger edition, Cambridge Natural History, Wiedersheim, etc. Junior B.S. (Biological group) requirement; elective to others. Four hours laboratory throughout the year.

(*d*) VERTEBRATE HISTOLOGY.—Texts: Piersol, Dahlgren and Kepner, etc.; with lectures. Junior B.S. (Biological group) requirement; elective to others. Two hours a week, lecture and laboratory, throughout the year.

(*e*) ANIMAL PHYSIOLOGY.—An introductory course consisting of experiments in the physiology of muscle and nerve, of circulation, of respiration and of optics, followed by some essential experiments on the income of energy or physiological chemistry. Texts: Porter's Introduction and the American Text-book on Physiology with other references. Senior elective; required for B.S. (Biological group). Four hours a week throughout the year.

(*f*) VERTEBRATE HISTOLOGY.—A continuation of course (*d*). Senior elective. Required for B.S. (Biological group).Two hours a week; first semester.

(*g*) EMBRYOLOGY OF THE CHICK.—A course of lectures accompanied by laboratory demonstrations and practical individual work. Text: Lillies' Em-

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bryology of the Chick. Senior elective. Required for B.S. (Biological group). Two hours a week; second semester.

All the foregoing courses include extensive drawings and the presentation of note books. The laboratory periods are generally unlimited.

(*h*) GENERAL PLANT MORPHOLOGY.—Consists of introductory lectures and of laboratory and field work on the most common types of Thallophytes, Bryophytes, Pteridophytes and Spermatophytes. Text: Coulter's Morphology. Gray's New Manual. Sophomore Ph.B. and B.S. (Biological group) requirement. Two hours a week, latter half of second semester.

(*i*) SYSTEMATIC AND STRUCTURAL BOTANY.—Collection and study of 250 plants required. Texts: Coulter, Barnes and Cowles Text-book of Botany, Vol. 1., Brown and Britton, Gray's New Manual, DuBarry, Stevens' Plant Anatomy and Chamberlain's Methods of Plant Histology. Junior B.S. (Biological group) requirement; elective to others. Two hours a week throughout the year, with laboratory and field work.

(*j*) PHYSIOLOGY AND ECOLOGY OF PLANTS.—Designed for the needs of forestry students. Text: Coulter, Barnes and Cowles Text-book of Botany, Vol. II., Clement's Ecology and Physiology, also MacDougal and Ganong. Senior elective. Required in B.S. (Biological group). Two hours a week throughout the year. Weekly experiments in the environment and physiological laboratory.

(*k*) BACTERIOLOGY.—Comprises manipulation of apparatus and study of essential methods of sterili-

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zation, incubation, staining, etc., classification. Texts: Jordan's General Bacteriology, Heindman's Laboratory Directions. Senior elective. B.S. requirement. One hour of lectures and recitations a week throughout the year, with laboratory work, extended through the week.

GEOLOGY

PROFESSOR SCHIEDT

Geology is required of all science students as a fitting conclusion of both the chemical and the biological courses. Elective for others.

(*a*) DYNAMICAL AND STRUCTURAL GEOLOGY.—Recitations from text combined with the study of the Shaler-Davis models and photographs and the microscopic examination of rock types. Text: Norton's Elements of Geology, Chamberlain and Salisbury's College Geology. Senior elective. Required in B.S. course. Two hours a week; first semester. Field work.

(*b*) HISTORICAL GEOLOGY.—A continuation of course (*a*). Senior elective. Required in B.S. course. Two hours a week; second semester. Field work.

CHEMISTRY

PROFESSOR BECK

The department of Chemistry offers a course leading to the degree of B.S. in chemistry. To applicants for the degree of Ph.B. and B.S. in Biology all or part of the branches of the longer course in

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chemistry are available with the laboratory requirements of the latter somewhat abridged. The work is planned to cultivate scientific spirit and habit, to instill modern methods of pure and applied chemistry, and to teach correct laboratory manipulation. With these purposes in view, the student is instructed in the theory of general analytical and organic chemistry with related subjects, and is required to spend a large part of his time in the laboratory. The graduate is in a position to take up any branch of chemistry intelligently and specialize on it, or the course fits him admirably for further work in medicine or other allied sciences.

To the A.B. student one year of general chemistry is given with an optional year of qualitative analysis. The object of this shorter course is to point out the chemical relations of common life and the world about us, and add practical information and an element of scientific training to a broad college course.

(*a*) GENERAL INORGANIC CHEMISTRY.—Lectures (with experiments) and recitations. The non-metals, metals and their compounds. Laboratory work. Text-book: Inorganic chemistry for colleges, Newell. Required of Freshman B.S. (Chemistry group), Junior A.B. and Sophomore Ph.B. and B.S. (Biological group). Three hours a week throughout the year.

(*b*) QUALITATIVE ANALYSIS.—Qualitative separations of the metals and analysis of natural and artificial products. Chemical Philosophy and Stoichiometry (to accompany Qualitative Course).

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Laboratory work, lectures and recitations. Text-books: Noye's, Prescott and Johnson's works on the subject; also Chemical Calculations. Senior elective for A.B. students. Required of Sophomore B.S. (Chemistry group) and Junior B.S. (Biological group) and for those Ph.B. students who take their major work in the sciences in chemistry; elective for all others. Five hours a week throughout the year for the required course and three hours for the elective.

(*c*) QUANTITATIVE ANALYSIS.—Volumetric and gravimetric analysis of chemical compounds, ores, fertilizers, etc. Laboratory and lectures. Text-books: Talbot and Fresenius, supplemented with the methods of chemists who are specialists on particular determinations. Junior B.S. (Chemistry group) requirement; elective for all others. Eight hours a week throughout the year for the required course and four hours for the elective.

(*d*) ADVANCED QUANTITATIVE ANALYSIS.—A continuation of course (*c*) with special determinations. Senior B.S. (Chemistry group) requirement, elective for others. Four hours a week throughout the year.

(*e*) BLOWPIPE ANALYSIS.—An elementary course in qualitative analysis in the dry way. The chief aim of this course is to assist in the identification of minerals. Lectures and laboratory. Reference book: Blowpipe Analysis by Brush. Senior B.S. (Chemistry group) requirement; elective for others. One hour a week; first semester.

(*f*) MINERALOGY.—Elementary course in physical, chemical and descriptive mineralogy. Laboratory: Practical exercises in determination of the

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more common mineral species. Text-book: Dana's Mineralogy. Senior B.S. (Chemistry group) requirement; elective for others. One hour a week; first semester.

(*g*) ASSAYING.—Furnace assay of gold, silver, lead ores, etc. Laboratory. Text-book: Rickett and Miller's Notes on Assaying. Senior B.S. (Chemistry group) requirement; elective for others. Two hours a week; first semester.

(*h*) ORGANIC CHEMISTRY.—Lectures, recitations on the chemistry of the typical compounds of carbon. Laboratory work. Determination of specific gravities, melting and boiling points, vapor densities. General organic analysis. Preparation of organic compounds, examination of foodstuffs. Text-book: Remsen's Introduction to the Study of the Carbon Compounds. Reference: Richter's Organic Chemistry (translated by Smith). Senior B.S. (Chemistry group) requirement; elective for others. Three hours a week; second semester.

Special courses, for men intending to enter upon any particular line of chemical work, can be planned by consultation with the professor in charge.

HYGIENE

DR. DRAPER

The course is designed to meet the growing demand that educated persons should have a practical knowledge of the laws of health. Freshman and Sophomore requirement; elective to others.

(*a*) Personal Hygiene. A study of food, habits, exercise, the care of the skin, the heart, the respira-

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tory organs, the mind, a discussion of the habits of study, of sex hygiene, etc. Lectures with supplementary physical exercise. Two hours a week throughout the winter.

(*b*) Social Hygiene. Discussion of the problems of contagious diseases and general topics of sanitation which concern the individual's relations to the community. Continuation of Course *a*.

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SYNOPSIS OF A. B. COURSE

First Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Greek *c* or *a*	4	Greek *d* or *b*	3	Psychology	3	Ethics	2	Economics *b*	2
Latin *a*	3	Latin *c*	3	Greek or Latin	2	English *f*	2	Sociology *a*	2
" *b*	1	German *c*	2	German *d* or French *a*	2	Bible *b*	1	Mathematics *j*	2
German *a* or *b*	2	English *c*	2	English *d*	2	*Elective.*		Physics *e*	2
English *a*	2	History *c*	2	Bible *a*	1	Pedagogy	2	" *f*	1
History *a*	2	Mathematics *e*	3	Economics *a*	2	Greek *f*	2	" *g*	2
Mathematics *a*	3	Biology *a*	2	Physics *a* or Chemistry *a*	3	" *g*	2	" *h*	2
Hygiene *a*	1	Hygiene *b*	1			" *h*	1	Astronomy *a*	2
Elective.		*Elective.*		*Elective.*		Latin *e*	2	" *c*	2
French *a*	2	French *b*	2	Greek *d*	3	" *g*	1	Geology *a*	3
Mathematics *c*	2	Politics *a*	2	" *e*	2	German *e*	2	Chemistry *b*	3
" *d*	3	" *b*	2	Latin *d*	2	" *h*	1		
				German *d*	2	French *b*	2		
				French *a*	2	English *g*	2		
				History *e*	2	" *h*	2		
				" *g*	1	History *h*	2		
				Politics *c* or *d*	2	" *j*	1		
				Mathematics *g*	3	Politics *c* or *d*	2		
				" *i*	2				
				Physics *c*	2				
				" *e*	2				
				" *f*	1				

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SYNOPSIS OF A. B. COURSE

Second Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective*	
Greek *c* or *a*	4	Greek *d* or *b*	3	Aesthetics	2	Ethics	2	Economics *c*	2
Latin *a*	3	Latin *c*	3	Greek or Latin	2	English *f*	2	Sociology *b*	2
" *b*	1	German *c*	2	German *d* or French *a*	2	Bible *b*	1	Mathematics *j* " *k*	2 1
German *a* or *b*	2	English *c*	2	English *e*	2	*Elective.*		Physics *e*	1
English *b*	2	History *d*	2	Bible *a*	1	Pedagogy	2	" *f*	1
History *b*	2	Biology *a*	2	Economics *a*	2	Logic	2	" *g*	2
Mathematics *b*	3	Mathematics *e*	3	Physics *b* or Chemistry *a*	3	Greek *f*	2	" *h*	2
Hygiene *a*	1	Hygiene *b*	1			" *g*	2	Astronomy *b*	2
Elective.		*Elective.*		*Elective.*		" *h*	1	Geology *b*	2
French *a*	2	French *b*	2	Logic	2	Latin *f*	2	Chemistry *b*	3
Mathematics *c*	2	Politics *a*	2	Greek *d*	3	" *g*	1		
		" *b*	2	" *e*	2	German *f*	2		
		Mathematics *f*	3	Latin *d*	2	" *g*	1		
		Phil. of Hist.	1	German *d*	2	" *h*	1		
				French *a*	2	French *b*	2		
				History *f*	2	English *g*	2		
				" *g*	1	" *h*	2		
				Politics *c* or *d*	2	History *i*	2		
				Mathematics *h*	3	" *k*	2		
				Physics *d*	2	Politics *c* or *d*	2		
				" *e*	2				
				" *f*	1				

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SYNOPSIS OF PH. B. COURSE

First Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Latin *a*	3	Latin *c*	3	Psychology	3	Ethics	2	Physics *e*	2
German *a* or *b*	2	German *c*	2	German *d*	2	English *f*	2	" *f*	1
French *a*	2	French *b*	2	English *d*	2	Bible *b*	1	" *g*	2
English *a*	2	English *c*	2	Bible *a*	1			" *h*	2
History *a*	2	Physics *a*	3	Economics *a*	2	*Elective.*		Astronomy *a*	2
Mathematics *a*	3	Biology *b*	2			Pedagogy	2	" *c*	3
" *d*	3	Chemistry *a*	3	*Elective.*		Latin *e*	2	Biology *e*	2
Hygiene *a*	1	Hygiene *b*	1	Latin *d*	2	" *g*	1	" *f*	2
				History *e*	2	German *e*	2	" *j*	2
Elective.		*Elective.*		" *g*	1	" *h*	1	" *k*	1
Mathematics *c*	2	History *c*	2	Politics *c* or *d*	2	English *g*	2	Geology *a*	2
		Politics *a*	2	Mathematics *g*	3	" *h*	2	Chemistry *c*	4
		" *b*	2	" *i*	2	History *h*	2	" *d*	4
				Physics *c*	2	" *j*	1	" *e*	1
				" *e*	2	Politics *c* or *d*	2	" *f*	1
				" *f*	1	Economics *b*	2	" *g*	2
				Biology *c*	2	Sociology *a*	3		
				" *d*	2	Mathematics *j*	2		
				" *i*	2				
				Chemistry *b*	3				

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SYNOPSIS OF PH. B. COURSE

Second Semester

Freshmen.	Hrs.	Sophomores	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Latin *a*	3	Latin *c*	3	Aesthetics	2	Ethics	2	Mathematics *j*	2
German *a* or *b*	2	German *c*	2	English *d*	2	English *f*	2	" *k*	2
French *a*	2	French *b*	2	English *e*	2	Bible *b*	1	Physics *e*	1
English *b*	2	English *c*	2	Bible *a*	1			" *f*	2
History *b*	2	Physics *b*	3	Economics *a*	2	*Elective.*		" *g*	2
Mathematics *e*	6	Biology *h*	2			Pedagogy	2	" *h*	2
Hygiene *a*	1	Chemistry *a*	3	*Elective.*		Logic	2	Astronomy *b*	2
		Hygiene *b*	1	Logic	2	Latin *f*	2	Biology *e*	2
Elective.				Latin *d*	2	" *g*	1	" *g*	2
Mathematics *c*	2	*Elective.*		History *f*	2	German *f*	2	" *j*	2
		History *d*	2	" *g*	1	" *g*	1	" *k*	2
		Politics *a*	2	Politics *c* or *d*	2	" *h*	1	Geology *b*	1
		" *b*	2	Mathematics *h*	3	English *g*	2	Chemistry *c*	2
		Mathematics *f*	3	Physics *d*	2	" *h*	2	" *d*	4
		Phil. of Hist.	1	" *e*	2	History *i*	2	" *h*	3
				" *f*	1	" *k*	1		
				Biology *c*	2	Politics *c* or *d*	2		
				" *d*	2	Economics *c*	2		
				" *i*	2	Sociology *b*	3		
				Chemistry *b*	3				

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SYNOPSIS OF B. S. COURSE—CHEMISTRY GROUP

First Semester

Freshmen.	Hrs.	Sophomores	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*	
German *b*	2	German *c*	2	German or French	2	Chemistry *d*	4
French *a*	2	French *b*	2	Chemistry *c*	8	" *e*	1
English *a*	2	English *c*	2	Physics *c*	2	" *f*	1
Chemistry *a*	3	Chemistry *b*	5	Psychology	3	" *g*	2
Mathematics *a*	3	Biology *a*	2	Bible *a*	1	Bacteriology or Adv. Phys. Meas.	2
" *c*	2	Physics *a*	3	*Elective.*		Geology *a*	2
" *d*	3	Hygiene *b*	1	History *e*	2	Ethics	2
Hygiene *a*	1	*Elective.*		" *g*	1	Bible *b*	1
Elective.		Politics *a*	2	Politics *c* or *d*	2	*Elective.*	
Latin *a*	3	" *b*	2	Economics *a*	2	Pedagogy	2
History *a*	2	Lhtin *c*	3	Physics *f*	1	History *h*	2
		History *c*	2			" *j*	1
						Politics *c* or *d*	2
						Economics *b*	2
						Sociology *a*	3

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SYNOPSIS OF B. S. COURSE—CHEMISTRY GROUP

Second Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*	
German *b*	2	German *c*	2	German or French	2	Chemistry *d*	4
French *a*	2	French *b*	2	Chemistry *c*	8	" *h*	3
English *b*	2	English *c*	2	Physics *d*	2	Bacteriology or Adv. Phys. Meas.	2
Chemistry *a*	3	Chemistry *b*	5	Aesthetics	2	Geology *b*	2
Mathematics *c*	2	Biology *a*	2	Bible *a*	1	Ethics	2
" *e*	6	Physics *b*	3			Bible *b*	1
Hygiene *a*	1	Hygiene *b*	1	*Elective.*			
Elective.		*Elective.*		History *f*	2	*Elective.*	
Latin *a*	3	Politics *a*	2	" *g*	1	Pedagogy	2
History *b*	2	" *b*	2	Politics *c* or *d*	2	Logic	2
		Phil. of Hist.	1	Economics *a*	2	History *i*	2
		Latin *c*	3	Logic	2	" *k*	1
		History *d*	2	Physics *f*	1	Politics *c* or *d*	2
						Economics *c*	2
						Sociology *b*	3
						German *f*	2
						" *g*	1
						" *h*	1

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SYNOPSIS OF B. S. COURSE—BIOLOGICAL GROUP

First Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*	
German *b*	2	German *c*	2	German or French	2	Biology *e*	2
French *a*	2	French *b*	2	Biology *c* or *i*	2	" *f*	2
English *a*	2	English *c*	2	" *d*	2	" *j*	2
Biology *a*	2	Biology *b*	2	Chemistry *b*	3	" *k*	1
Mathematics *a*	3	Chemistry *a*	3	Psychology	3	Geology *a*	2
" *c*	2	Physics *a*	3	Physics *c*	2	Ethics	2
" *d*	3	Hygiene *b*	1	Bible *a*	1	Bible *b*	1
Hygiene *a*	1	*Elective.*		*Elective.*		*Elective.*	
Elective.		Politics *a*	2	History *e*	2	Pedagogy	2
Latin *a*	3	" *b*	2	" *g*	1	History *h*	2
History *a*	2	Latin *c*	3	Politics *c* or *d*	2	" *j*	1
		History *c*	2	Economics *a*	2	Politics *c* or *d*	2
				Physics *f*	1	Economics *b*	2
						Sociology *a*	3
						German *e*	2
						" *h*	1

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SYNOPSIS OF B. S. COURSE—BIOLOGICAL GROUP

Second Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*	
German *b*	2	German *c*	2	German or }	2	Biology *e*	2
French *a*	2	French *b*	2	French }		" *g*	2
English *b*	2	English *c*	2	Biology *c* or *i*	2	" *i*	2
Biology *a*	2	Biology *h*	2	" *d*	2	" *k*	2
Mathematics *c*	2	Chemistry *a*	3	Chemistry *b*	3	Geology *b*	1
" *e*	6	Physics *b*	3	Physics *d*	3	Ethics	2
Hygiene *a*	1	Hygiene *b*	1	Aesthetics	2	Bible *b*	1
Elective.		*Elective.*		Bible *a*	1	*Elective.*	
Latin *a*	3	Politics *a*	2	*Elective.*		Pedagogy	2
History *a*	2	" *b*	2	History *f*	2	Logic	2
		Phil. of Hist.	1	" *g*	2	History *i*	2
		Latin *c*	3	Politics *c* or *d*	2	" *k*	2
		History *d*	2	Economics *a*	2	Politics *c* or *d*	2
				Logic	2	Economics *c*	2
				Physics *f*	1	Sociology *b*	2
						German *f*	3
						" *g*	2
						" *k*	1

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DEGREES CONFERRED IN 1912

Degrees in Course

Bachelor of Arts

Howard Ellwood Ammerman
Calvin George Bachman
Harry Miller Bassler
Clarence Edmund Batschelet,
Philip Henry Bridenbaugh
Charles Samuel Coleman
Henry Earle DeHaven
Guy Linton Diffenbaugh
James Heber Dorman
John Richard Hahn
Robert Reiff Hartzell
Russell Lowell Leaver Hunter
William Raymond Jones
Jacob Franklin Kauffman
Joseph Iddings Lauffer
Roy Leslie Lewis
John Gabriel Long
Grover Cleveland Maus
Harvey Joseph Miller
Paul Reid Pontius
Homer Franklin Rebert
Adam Frederick Rentz
Jeremiah Rahn Rothermel
Lloyd Ferner Rumbaugh
Paul Franklin Schaffner
Chas. William W. Schantz
Robert Paul Schearrer
Harry Garfield Sensinger
James Ray Shepley
Charles Edwin Sohl
William Allen Sohl
Earl Landis Stehman
Frank King Troutwine
Daniel Jacob Wetzel
Raymond Evers Whitmore
Harry Zell

Bachelor of Philosophy

Edwin H. Aston
Charles Hershey Burns
David Clinton Colebaugh
Rexford Bell Hartle
Leigh Peoples Helm
Christian Maurice Hershey
Joseph Swift Irwin
John Leslie Kendig
Benjamin Willis Moyer
Arthur Phenegar Mylin
Robert Martin Oberholser
Robert Burns Taylor
Clyde Eugene Thomas
Allan Billyeu Wallace
William Edwin Weisgerber
Frank Pattison Werner
Herbert Ralph Werner
Clayton Clark Witmer

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Master of Arts

William Chester Greenawalt
Joseph Sell Lawrence
Joseph Alfred Rothermel
Levi Nevin Wilson

Master of Philosophy

William Edwin Keefer

HONORARY DEGREES

Doctor of Laws

Count Johann Heinrich von Bernstorff,
German Ambassador, Washington, D. C.
Frederick William Lehman, Solicitor General,
Washington, D. C.
William Cameron Sproul, Chester, Pa.
Judge George Kunkel, Harrisburg, Pa.

Doctor of Letters

William Uhler Hensel, Lancaster, Pa.

Doctor of Science

William Murray Black, U.S.A., New York.
Edwin Musser Herr, Pittsburg, Pa.
John Blair Deaver, Philadelphia, Pa.
John Kunkel Small, New York.

Doctor of Divinity

John Franklin Moyer, Reading, Pa.
James Breitigam Kerschner, Freeland, Pa.

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ACADEMY

Instructors

Thaddeus G. Helm, A.M., Principal,
Greek

Edwin M. Hartman, A.M., Principal,
German

Martin W. Witmer, A.B.,
English

Jacob B. Landis, A.B.,
English

Edward H. Heffner, A.B.,
Latin

A. Lincoln Gehman, A.B.,
Latin

Joseph A. Rothermel, A.M.,
Mathematics and Science

Clarence E. Batschelet, A.B.,
Mathematics

Homer F. Rebert, A.B.,
History

Charles M. Ackerman,
Mathematics

George N. Hartman, A.B.,
Gymnasium and Athletics

G. Nevin Rebert,
Athletics

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THE ACADEMY

History

Franklin and Marshall Academy was originally a preparatory department connected with Franklin College. After the union of Marshall College with Franklin College, this department was continued in immediate connection with Franklin and Marshall College, and in 1872, was named Franklin and Marshall Academy, when a new building was erected for its use and a separate faculty and management were appointed, so as "to make more ample provision for its efficiency and to enlarge its usefulness." An additional building was recently erected at a cost of $100,000.

Location

The Academy is located on the campus of Franklin and Marshall College. It is the most elevated ground for miles around, affording good drainage, pure air, sanitary conditions and fine distant views of five to fifteen miles.

Aim

The aim of the Academy is well expressed in the words used nearly forty years ago in the resolution of the trustees changing the preparatory department to Franklin and Marshall Academy. It is to be "in the best and highest sense, a training school for boys who desire to go to college, and also furnish

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a complete academical course for those who do not purpose taking a full collegiate course of study."

While seeking to develop right habits of study and accurate scholarship, the school endeavors also to develop and mold the sound Christian character, which is more important than scholastic efficiency.

BUILDINGS

The equipment of the Academy includes two large buildings, known as East Hall and the Main Building.

East Hall is a three-story brick building in excellent repair equipped with electric light, steam heat, hot and cold water shower baths and all modern conveniences.

The Main Building is large, beautiful, well-planned, well-finished in hard wood, modern in every detail and substantially built of dark red brick, erected at a cost of about $100,000. It is 215 feet long, extending north and south, has two wings, 40x75 feet, and a chapel, seating about 350 boys, built west of the central building. In the center of the building is a large, square hall, with a large fire place, used as a general living room and game room and affords a useful and delightful center for the school life. About one-half of the students can be accomodated in single rooms, and the others in double rooms with single beds.

LIVING ARRANGEMENTS

All boarding students of the Academy are required to live in one of these buildings.

The principals live in private apartments, one

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in each dormitory building. The teachers live in the dormitories with the boys.

In case of slight illness students are placed in the infirmary, fitted for that purpose.

PHYSICAL TRAINING

The school aims to encourage such physical exercise in the gymnasium and on the athletic field as will conduce to the proper development of the student and to the physical condition most favorable to good school work. The Academy boys have their own foot-ball, base-ball, basket-ball, and track teams, which are under the direction of their own competent coach and have their own athletic grounds. They have the privilege of using the college athletic field nearby for playing match games.

The Academy gymnasium is in the basement of the new building, equipped with a metal locker for every boy, toilet and bath rooms with hot and cold water shower baths.

LIBRARIES AND READING ROOM

The reading room of the Academy, with about forty of the best papers and magazines, is open to students daily. Academy students also have access, without charge, to the reading room of the college, which receives over one hundred of the best papers and magazines of this country, together with a number of the leading foreign reviews, the college library and the libraries of the literary societies, within five minutes' walk of the school, aggregating about 50,000 volumes. In these respects, the school affords exceptional advantages for college preparatory students.

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LITERARY SOCIETIES

Every boarding student is required to be a member of either the Franklin Literary Society or the Marshall Literary Society. The meetings are conducted by the students, so as to make them acquainted with the rules which hold in deliberative assemblies, but the exercises are under the direction of certain members of the faculty, who are always in attendance, so as to insure careful work and definite results. The work of these societies is made a prominent feature of the school.

RELIGIOUS MEETINGS

All students, unless excused at the written request of parents, attend prayers in the Academy Chapel every morning.

All students except those of other than Protestant denominations, are required to attend Sunday morning worship in the College Chapel with the college congregation.

A Young Men's Christian Association is maintained by the student body. About eighty per cent. of the boarding students were enrolled last year in voluntary Bible Classes.

ACADEMY AND COLLEGE

The proximity of the Academy to a classical college secures to the students a literary atmosphere and the benefits of numerous literary exercises, debates, lectures, etc., which only such a college community can afford. The Academy is sufficiently separated from the College to avoid the intimate association and intercourse of college and

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academy students, which is often found objectionable at institutions where these two classes are constantly thrown together.

GRADUATION

A student of the school who has satisfactorily completed the work of any regular course, or such equivalent variation as his college may require, no less than 14 units, is eligible for graduation with the award of the school's diploma. A student who has not completed a full course may receive a certificate of credit for such work as he has satisfactorily passed.

SPECIAL CLASSES

Special classes are organized for young men who teach during the winter and come to the Academy for the spring term.

SUMMER TERM

For teachers and any others desiring work in their line of college preparation a summer term of six weeks is offered, beginning June 17th. The tuition for the term is fifteen dollars.

EXPENSES

Tuition, boarding, furnished room with light and heat, and washing, per school year, $325 and $350. Tuition for day students, $75.

A separate catalogue of the Academy, giving more detailed information, will be sent on application.

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REGISTER OF COLLEGE STUDENTS

Graduate Students

Adam Ray Ackerman, A.B. (1908),	North Wildwood, N. J.
George Charles Clever, A.B. (1903)),	Philadelphia, Pa.
Leon DeHoff, A.B. (1905),	New Orleans, La.
Byrt Willlam Fisher, A.B. (1908),	Lancaster, Pa.
A. Lincoln Gehman, A.B. (1909),	Lancaster, Pa.
Alfred Jasper Herman, A.B. (1903),	Frederick, Md.
Ara W. Kauffman, A.B. (1904),	Lancaster, Pa.
Henry Harold Kershner, Ph.B. (1908),	Reading, Pa.
John Nevin Land, A.B. (1907),	Wyomissing, Pa.
Jesse Hiram Lauffer, A.B. (1908),	Irwin, Pa.
Joseph Iddings Lauffer, A.B. (1912),	Irwin, Pa.
Leonard Llewellyn Leh, A.B. (1911),	Lancaster, Pa.
Cyrus Cleveland Meyer, A.B. (1908),	Washington, Pa.
Edwin Allen Nace, A.B. (1904),	McKeesport, Pa.
Joseph Matthew Newgard, A.B. (1908),	Forreston, Ill.
Adam Frederick Rentz, A.B. (1912),	Lancaster, Pa.
Wallace Lehr Robinson, A.B. (1911),	Lancaster, Pa.
William Abraham Schnader, A.B. (1908)	Shamokin, Pa.
Isaac Shirk Simons, A.B. (1909),	Philadelphia, Pa.
William Allen Sohl, A.B. (1912),	Hamburg, N. J.
Robert Burns Taylor, Ph.B. (1912),	Reidenbach, Pa.
Wm. Edwin Weisgerber, Ph.B. (1912)	Lancaster, Pa.
Herbert Ralph Werner, Ph.B. (1912)	Lancaster, Pa.
Edwin Allen Ziegler, A.B. (1902)	Mont Alto, Pa.

Students whose names are marked thus * ha ve not been regular in their respective classes since June, 1912.

Senior Class

A. B. Course

Charles M. Ackerman, 622 West Lemon Street.	Washington, D. C.
Ross Edgar Benchoff, 606 West Walnut Street.	Clearfield, Pa.

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Louis Birinyi, F. and M. Academy.	Damak, U. P. Hangacs, Hungary.
Moses H. Brackbill, 520 South Shippen Street.	Lancaster, Pa.
Owen Peterson Bricker, Jr., 311 North Duke Street.	Lancaster, Pa.
Raymond Michael Bright, 51 North Charlotte Street.	Bernville, Pa.
Harry Jacob Donat, 417 North Charlotte Street.	Wanamakers, Pa.
John Andrew Frantz, 321 East King Street.	Lancaster, Pa.
Howard Emerson Gayley, 433 North Charlotte Street.	Howe, Pa.
Austin Leonard Grove, 351 North Charlotte Street.	Glen Rock, Pa.
Ralph Ellis Hartman, 437 West James Street.	Littlestown, Pa.
Elmer Rhodes Hoke, 436 North Pine Street.	Lancaster, Pa.
Ralph Penrose Holben, 501 West James Street.	Allentown, Pa.
J. Egbert Imler, 502 West James Street.	Osterburg, Pa.
Claude Talmage King, 249 College Avenue.	Littlestown, Pa.
Estes Bilger Landis, 534 West James Street.	Tylersport, Pa.
Paul Nissley Landis, 501 West James Street.	Womelsdorf, Pa.
Charles De LeFond, 624 West Lemon Street.	Baltimore, Md.
Simon S. Lehman, 613 West Lemon Street.	Willow Street, Pa., R.D. 1.
Thomas Johnston Marshall, 558 West James Street.	Lebanon, Pa.
Edward Louis Nolting, 437 West James Street.	Columbia, Pa.
Charles E. Resser, Lititz, Pa., R. D. 3.	Lititz, Pa., R. D. 3.
William Martin Roberts, 560 West James Street.	Altoona, Pa.
Edwin Blaine Romig, 558 West James Street.	Reading, Pa.

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Homer Bauman Saul, 534 West James Street.	Delmont, Pa.
Louis Malone Smith, 351 North Charlotte Street.	Derry, Pa.
Paul Jay Sykes, 437 West James Street.	Cardston, Alberta, Can.
Paul Conner Wagner, 558 West James Street.	Reading, Pa.
Floyd D. Weaver, 236 North Mary Street.	Liberty, Pa.
Joseph Ruch Wissler, 426 West James Street.	Lititz, Pa.

PH.B. COURSE

Howard Heistand M. Bowman, 740 Chester Avenue.	Lancaster, Pa.
George Elder Brinton, 534 West James Street.	Oxford, Pa.
Jacob Clark Henneberger, 560 West James Street.	Greencastle, Pa.
Tobias Leonard Jaeger, 437 West James Street.	Dubuque, Iowa.
Raymond Bitzer Leinbach 558 West James Street.	Reading, Pa.
Louis Jacob Livingood, 560 West James Street.	Womelsdorf, Pa.
Robert Barr Maclay, 351 North Charlotte Street.	Belleville, Pa.
Ralph Henderson Maclay, 351 North Charlotte Street.	Belleville, Pa.
George Williard Metger, 437 West James Street.	Frostburg, Md.
Ralph Lewis Reber, 437 West James Street.	Reading, Pa.
James Stuart Seitz, 351 North Charlotte Street.	Glen Rock, Pa.
Mark Emerson Stine, 415 West James Street.	Elizabethville, Pa.
Hiram Grant Straub, 513½ West James Street.	Minersville, Pa.
Chester Burton Wray, 415 West James Street.	Altoona, Pa.

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B.S. COURSE

John Harold Stein, Kutztown, Pa.
234 North Duke Street.

SPECIAL

Jonah Thomas Harrison, Greensboro, N. C.
513½ West James Street.
Benjamin Wade Shaub,* Lancaster, Pa.
246 East Orange Street.

JUNIOR CLASS

A. B. COURSE

Mahlon Frank Bolton, Norristown, Pa.
524 West James Street.
Henry Newpher Bowman, Lancaster, Pa.
42 West End Avenue.
Ralph Kline Bowman, Front Royal, Va.
509 West James Street.
Charles Warren Brewbaker,† State Line, Pa.
517 Lancaster Avenue.
Claude Octavius Dierolf, Lancaster, Pa.
639 Chester Avenue.
Henry Arthur Fox, Danboro, Pa.
351 North Charlotte Street.
Frank Preston Fravel, Toms Brook, Va.
509 West James Street.
Percy Hoffer Gabel, Lancaster, Pa.
722 North Lime Street.
Edward Townsend Hager Lancaster, Pa.
Columbia Avenue.
William Oscar Heckman, Tusseyville, Pa.
351 North Charlotte Street.
Amos Henry Hersh, Lancaster, Pa.
561 South Lime Street.
Jacob Carpenter Hess, Lititz, Pa., R. D. 5.
510 West James Street.
Foster Calvin Hillegass, Pennsburg, Pa.
415 West James Street.
Benjamin Harrison Hoober, Lancaster, Pa.
436 North Lime Street.

† Died.

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Jay Forney Hostetter,* 409 West James Street.	Lancaster, Pa.
Herbert King Kendig, 534 West James Street.	York, Pa.
John K. White Kramer,* 828 West Lemon Street.	Hyndman, Pa.
Paul Irving Kuntz, 611 West Lemon Street.	York, Pa.
Anson E. Laufer, 509 West James Street.	Brodheadsville, Pa.
Samuel Edwin Lobach, 249 College Avenue.	Lancaster, Pa.
John Karl Miller,* Marietta, Pa.	Marietta, Pa.
George Albert Moore, 534 West James Street.	Lancaster, Pa.
William Edward Muth, 622 West Lemon Street.	Northampton, Pa.
Willis Carl Nugent, 426 West James Street.	Altoona, Pa.
Willard Merritt Porterfield, Jr. 433 Nevin Street.	Lancaster, Pa.
Harry Lyman Raub, Marietta Avenue.	Lancaster, Pa.
Irvin Albert Raubenhold, 509 West James Street.	Northampton, Pa.
Paul Herbert Reigner, 415 West James Street.	Reading, Pa.
Victor Abraham Ruth, 434 Lancaster Avenue.	Athol, Pa.
Howard Lester Sassaman, 437 West James Street.	Hummelstown, Pa.
Alfred Nevin Sayres, 427 South Queen Street.	Lancaster, Pa.
Herbert Alfred Schaffner, 437 West James Street.	Hummelstown, Pa.
Harvey Arthur Smith, 509 West James Street.	Brodheadsville, Pa.
Caulder Charles Stewart, 436 Lancaster Avenue.	Lebanon, Pa.
Lewis HochWagenhorst, 426 West James Street.	Kutztown, Pa.
Bertram Stuart Walker, 534 West James Street.	Berlin, Pa.

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David Wenger Weber, Ephrata, Pa., R. D. 4.	Ephrata, Pa., R. D. 4.
John Wade Wimer, 437 West James Street.	Quarryville, Pa.
Henry Higbee Worthington, 242 Charlotte Street.	Lancaster, Pa.

PH.B. COURSE

Guy Anderson Benchoff,* 413 North Charlotte Street.	Clearfield, Pa.
Paul Hamilton Bletz, Jr., 415 West James Street.	Mountville, Pa.
Herman Daniel Deihl, 567 West Lemon Street.	Lancaster, Pa.
James Herbert Egan, 437 West James Street.	Lancaster, Pa.
William Edgar Griffith, 437 West James Street.	Imler, Pa.
Oliver Reiff Hartzell, 351 North Charlotte Street.	South Perkasie, Pa.
John LeRue Hess, 136 College Avenue.	Duncannon, Pa.
Charles Wade Jones, 351 North Charlotte Street.	Oshkosh, Wis.
Walter Leroy Kalbach,* 415 West James Street.	Reading, Pa.
Kelvin K. Keech,* 415 West James Street.	Oahu, Hawaii.
Harold Guy Kittelman, 415 West James Street.	Quakertown, Pa.
Edwin Morgan Krecker,* 133 Pearl Street.	Lancaster, Pa.
John Marcus Lansinger,* Millersville, Pa.	Millersville, Pa.
William Michael Loy, 426 West James Street.	Trexler, Pa.
Josiah Jacob Markle,* 606 Chester Avenue.	Hanover, Pa.
Donald Mitchell Mylin, 807 North Duke Street.	Lancaster, Pa.
Carl Nathaniel Netscher, 46 North Prince Street.	Lancaster, Pa.

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Robert Wendell Owens, 560 West James Street.	Tyrone, Pa.
Solomon Gilmore Pontius, 558 West James Street.	Butler, Pa.
John Landis Reist,* 437 West James Street.	Lancaster, Pa., R. D. 3.
Harold K. Robinson, 558 West James Street.	Harrisburg, Pa.
John Calvin Saylor, 415 West James Street.	Johnstown, Pa.
John Brower Snyder, 510 West James Street.	Reading, Pa.
Michael Garfield Stump, 426 West James Street.	Pine Grove, Pa.
Ralph Stanley Weiler, Terre Hill, Pa.	Terre Hill, Pa.

B.S. COURSE

Robert McCulley Halbach, 804 Manor Street.	Lancaster, Pa.
Edmund Keffer Kline, 302 North Lime Street.	Lancaster, Pa.
Claudus Lester Rohrbaugh, 328 West Lemon Street.	Glen Rock, Pa.
Mark Thatcher, 437 West James Street.	Richland Center, Pa.

SPECIAL

Paul Jerome Bowman,* F. and M. Academy.	Pillow, Pa.
H. G. Hassenplug, 226 East King Street.	Lancaster, Pa.
Harold Barton Kreider, Witmer, Pa.	Witmer, Pa.
Reuben Edwin Kutz, 136 College Avenue.	Summit Hill, Pa.
E. Ross Ranck, 139 East King Street.	Lancaster, Pa.

SOPHOMORE CLASS

A.B. COURSE

Kenneth Ellmaker Appel, Columbia Avenue.	Lancaster, Pa.

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Herbert Franklin Arnold, 509 West James Street.	Saylorsburg, Pa.
Charles Alfred Bennett,* 431 Nevin Street.	Renova, Pa.
Wallace Dunn Black, 351 North Charlotte Street.	Rocky Ridge, Md.
Elmer Roy Corman, 435 North Charlotte Street.	Spring Mills, Pa.
Rennie Watson Deihl, 562 West Lemon Street.	Lancaster, Pa.
Herbert Espenshade Diller,* Leaman Place, Pa.	Leaman Place, Pa.
Tillman Heisey Ebersole, College Campus.	Elizabethtown, Pa.
John Warren Forry, 224 Lancaster Avenue.	West Leesport, Pa.
Emerson Guy Greenawalt,* 417 North Charlotte Street.	Lancaster, Pa.
Malcolm Morrison Haring, 428 South Queen Street.	Lancaster, Pa.
Earle Russell Herbert, 560 West James Street.	Nanticoke, Pa.
John Samuel Hollenbach, 402 West Lemon Street.	Middleburg, Pa.
Earle Leslie Leaver Hunter, Ephrata, Pa.	Ephrata, Pa.
Edgar Stambaugh Imler, 435 North Charlotte Street.	Osterburg, Pa.
Llewellyn Leicester Iobst, 437 West James Street.	Freemansburg, Pa.
Raymond Shirk Johns, 48 North Duke Street.	Lancaster, Pa.
Charles Leon Johnston, 509 West James Street.	Smithburg, Md.
Arthur King Kunkel, 558 West James Street.	Harrisburg, Pa.
George Kunkel, Jr., 231 Lancaster Avenue.	Harrisburg, Pa.
William Minster Kunkel, 231 Lancaster Avenue.	Harrisburg, Pa.
Alfred Merton Masonheimer, 558 West James Street.	Weatherly, Pa.
Israel George Nace, 351 North Charlotte Street.	Hanover, Pa.

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Francis Leroy Olweiler, College Campus.	Lancaster, Pa.
Heister Guie Rhawn, 606 Walnut Street.	Catawissa, Pa.
Jacob Lloyd Rickert, 517 Lancaster Avenue.	Sellersville, Pa.
Harry Lewis Shaffer, 208 North Mulberry Street.	Lancaster, Pa.
Samuel Michael Shelly, 402 West Lemon Street.	Steinsburg, Pa.
John Gross Shook,* 435 North Charlotte Street.	Spring Mills, Pa.
Charles Pentz Shriver, 431 Nevin Street.	Mechanicsburg, Pa.
V. Galen Slifer, 437 West James Street.	North Wales, Pa.
Claude Richmond Stauffer, Leola, Pa.	Leola, Pa.
Bruce Albion Wentz, 524 West Frederick Street.	Lancaster, Pa.
Charles Raymond Yockey, 436 Lancaster Avenue.	Worthington, Pa.
George Herbert Zellers, 519 Lancaster Avenue.	Lancaster, Pa.

Ph.B. COURSE

Walter Breuninger Aierstuck,* Millersville, Pa.	Millersville, Pa.
Park Smith Brant, 534 West James Street.	Friedens, Pa.
Harry Edward Brenner, 428 West King Street.	Lancaster, Pa.
Charles William Fenstermacher, 534 West James Street.	Coplay, Pa.
Amandus Greenwald Gearhart, 437 West James Street.	Stroudsburg, Pa.
Burtis Rufus Glidden, 560 West James Street.	Aberdeen, Wash.
Thomas Clifford Hayes,* 534 West James Street.	Butler, Pa.
John Frederick Holman,* 542 West James Street.	Lancaster, Pa.

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Karl Musser Houser, 558 West James Street.	Pennsylvania Furnace, Pa.
John Robert Johnston, 509 West James Street.	Smithsburg, Md.
Grover Cleveland Kirk,* 402 West Lemon Street.	Wafordsburg, Pa.
Richard Henry Kline, 631 West Chestnut Street.	Lancaster, Pa.
William Abia Kurtz, 419 North Charlotte Street	outh Hermitage, Pa.
Henry Myers Long, 237 North Mary Street.	Detroit, Mich.
Adam Zerphy Moore, 543 West Lemon Street.	Lancaster, Pa.
Raphael Nies, 426 West James Street.	Hamburg, Pa.
Henry Osman O'Neil, 524 West James Street.	Norristown, Pa.
John Adam Rieser, 505 West James Street.	Reading, Pa.
Charles Edward Schutte,* Marietta Avenue.	Lancaster, Pa.
George Smithgall,* 523 Pine Street.	Lancaster, Pa.
Lamber L. Spancake, 402 West Lemon Street.	Pine Grove, Pa.
Howard B. Stauffer, Jr., 433 Charlotte Street.	Landisville, Pa.
George W. Stoler, 351 North Charlotte Street.	Saxton, Pa.
Roy Elmer Wood, 560 West James Street.	Aberdeen, Washington.
Earl Brooke Worthington, 419 North Charlotte Street.	Dry Run, Pa.
C. E. Zorger, Harrisburg, Pa.	Harrisburg, Pa.

B. S. COURSE

Charles Custer Barchfeld, 560 West James Street.	Somerset, Pa.
Edward Henry Berger, 25 Dauphin Street.	Lancaster, Pa.
George Michael Blank, 560 West James Street.	Greensburg, Pa.

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Carl H. Brubaker, Columbia, Pa.	Columbia, Pa.
James Kimber Grimm, 526 Frederick Street.	Lancaster, Pa.
Harry Vista Harbaugh, 509 West James Street.	Buena Vista Spring, Pa.
Raymond Henry Kray, 30 North Shippen Street.	Lancaster, Pa.
William Grover Markel, 413 North Charlotte Street.	Sunbury, Pa.
Lawrence Tibbins Orner, 413 North Charlotte Street.	Beech Creek, Pa. R. D.
John Fred Pyfer, 605 College Avenue.	Lancaster, Pa.
Philip Raymond Schreiber, 501 West James Street.	York, Pa.
Robert Lee Thornton, Jr., 654 West Chestnut Street.	Lancaster, Pa.

SPECIAL COURSE

Fred Beates Crumbaugh,* 304 West King Street.	Kennett Square, Pa.
Claude F. Glick, 602 West Lemon Street.	Allentown, Pa.
Charles Lewis Fackler,* 415 West James Street.	York, Pa.
Arthur Slaymaker Herman, Gordonville, Pa.	Gordonville, Pa.
Abraham Koplin Hostetter, 415 West James Street.	Hanover, Pa.
Harry Benjamin Hostetter, 715 North Duke Street.	Lancaster, Pa.
Paul James Neff, 417 North Charlotte Street.	Ridgely, Md.
Harold Pollock Pierce, 505 West James Street.	Belle Vernon, Pa.
Baker Royer, Ephrata Pa.	Ephrata, Pa.
Charles Carroll Sauber,† 221 South Queen Street.	Lancaster, Pa.
Richard Muhlenberg Stockton, 26 South Prince Street.	Lancaster, Pa.
Clarence Cornelius Thomas, 419 North Charlotte Street.	Adamstown, Md.

† Died.

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FRESHMAN CLASS

A. B. COURSE

Oscar Clair Allshouse, 509 West James Street.	Avonmore, Pa., R. D. 1.
Henry Geistweit Carpenter, Mount Joy, Pa.	Mount Joy, Pa.
Robert Lorenzo Clark, Jr., 814 Columbia Avenue.	Lancaster, Pa.
Foster Cleveland Crouse, 418 West James Street.	Berwick, Pa.
Benjamin Franklin Davis, Jr., 142 East Vine Street.	Lancaster, Pa.
David Alton Dietrich, 534 West James Street.	Hublersburg, Pa.
Alvin Francis Dietz, 509 West James Street.	Wind Gap, Pa., R. D. 1.
Charles Spindler Duttenhofer, 337 West Orange Street.	Lancaster, Pa.
Paul Nathan Fox, 618 West Lemon Street.	New Bloomfield, Pa.
George Treer Hambright, 26 West James Street.	Lancaster, Pa.
Willlam Allen Hammond, New Holland, Pa.	New Holland, Pa.
John Michael Herzog, 415 West King Street.	Lancaster, Pa.
Roy Edward Hoke, 436 North Pine Street.	Lancaster, Pa.
Walter Lee Hoke, 622 West Lemon Street.	Walkersville, Md.
Henry Kissinger Reiss Holston, 558 West James Street.	Pottstown, Pa.
Asis Alexander Koorie, 541 Lancaster Avenue.	Paterson, N. J.
Daniel Herr Kunkel, 231 Lancaster Avenue.	Harrisburg, Pa.
Raymond Austin McClellan, F. and M. Academy.	Jordan, Pa., R. D. 1.
Jarrett Grover Moyer, 509 West James Street.	Ashland, Pa.
Paul Howard Musser, 560 West James Street.	Philadelphia, Pa.

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Ralph Schnader Myers, Terre Hill, Pa.	Terre Hill, Pa.
John Royer Noss, 602 West James Street.	Wakamatsu, Iwashiro, Jap.
Harold George Ripple, 567 West Walnut Street.	Lancaster, Pa.
Charles David Rockel, 501 West James Street.	Allentown, Pa.
Howard Kann Spahr, 611 West Lemon Street.	Lancaster, Pa.
Frank William Teske, 418 West James Street.	Plymouth, Pa.
Harry Franklin John Uberroth, 618 West Lemon Street.	Bethlehem, Pa.
John Nevin Waugaman, 509 West James Street.	Export, Pa.
James William Witherspoon, 560 West James Street.	Mercersburg, Pa.
Clayton Warren Wotring, 417 North Charlotte Street.	Jordan, Pa.

PH. B. COURSE

William Lester Atchley, 402 West Lemon Street.	Stone Church, Pa.
John Albert Borger, 443 Nevin Street.	Aquashicola, Pa.
Franklin Krauskop Brinkman, 234 South Queen Street.	Lancaster, Pa.
Joseph Hess Geiger, Quarryville, Pa.	Quarryville, Pa.
Allen Reiff Hartzell, 351 North Charlotte Street.	South Perkasie, Pa.
Ferdinand Heine, 432 North Duke Street.	Lancaster, Pa.
James Irwin Hoffman, 415 West Lemon Street.	Halifax, Pa.
Roy Wilson Honsberger, 517 Lancaster Avenue.	Tremont, Pa.
David Sylvester Kaltreider, 534 West James Street.	York, Pa.
Maurice William Miller, 517 Lancaster Avenue.	Summit Hill, Pa.
Edward Everett Mylin, 807 North Duke Street.	Lancaster, Pa.

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Frederick Leet Reichert, 410 Manor Street.	Lancaster, Pa.
Meade Daniel Schaffner, 501 West James Street.	Enhaut, Pa.
William Mason Seibert, 509 West James Street.	Clearspring, Md.
Clarence Edgar Shappell, 517 Lancaster Avenue.	Hamburg, Pa.
Simon Peter Whitehead, 437 West James Street.	Manor, Pa.
Walter Holmes Wishard, 509 West James Street.	Leitersburg, Md.

B.S. COURSE

Paul Remington Garrison, Columbia, Pa.	Columbia, Pa.
Earl Brandt Grosh, 558 West James Street.	Lititz, Pa.
Horace Egbert Haring, 428 South Queen Street.	Lancaster, Pa.
Myron William Jones, 560 West James Street.	Lancaster, Pa.
William Albert Kline, 565 West Lemon Street.	Schuylkill Haven, Pa.
Thomas Tony Martone, 558 West James Street.	Singerly, Md.
Paul Good Murray, Lancaster, Pa., R. D. 1.	Lancaster, Pa., R. D. 1.
Robert Barr Rohrer, 234 North Mary Street.	Lancaster, Pa.
John Franklin Starr, 565 West Lemon Street.	Schuylkill Haven, Pa.
Harry Elijah Thomison, 622 West Lemon Street.	Laurel, Del.
Paul Cameron Ward, 437 West James Street.	Pennsylvania Furnace, Pa.
Marburg Downin Weagley, 560 West James Street.	Waynesboro, Pa. R. D. 1.

SPECIAL COURSE

Edgar Charles Bleiler, 536 West James Street.	Frackville, Pa.

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Richard Karl Honaman, 310 West Lemon Street.	Lancaster, Pa.
Harry Leslie Jones, 216 Reservoir Street.	Youngwood, Pa.
George Raymond Longenecker, 523 North Lime Street.	Lancaster, Pa.
Richard Fahnestock Martin, Marietta Avenue.	Lancaster, Pa.
Alfred Wentz Moyer, 546 West Chestnut Street.	Lancaster, Pa.
Stanley Nissley Mumma, Walnut and Nevin Streets.	Landisville, Pa.
William Carson Sims, 536 West James Street.	Reading, Pa.
James Archer Smith, 560 West James Street.	Havre de Grace, Md.
George Hoy Wetzel, 509 West James Street.	Stoyestown, Pa.

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REGISTER OF ACADEMY STUDENTS

Adams, Benjamin Franklin	Lancaster, Pa.
Adams, Carl Franklin	Lancaster, Pa.
Adams, Robert Houston	Lancaster, Pa.
Andreas, John Reuben	Wilkes Barre, Pa.
Anewalt, Paul Frederick	Allentown, Pa.
Anstock, Earl David	Frackville, Pa.
Arisman, George Martin	Boswell, Pa.
Bair, John McKinley	New Providence, Pa.
Bard, Levi Andes	Leacock, Pa.
Bard, Samuel Shenk	East Petersburg, Pa.
Barr, James Jacob	Lancaster, Pa.
Barr, Richard Hersh	Lancaster, Pa.
Bartholomew, Howard Hancock	Lancaster, Pa.
Bausman, Franklin Warren	Bausman P. O., Pa.
Bell, Carl Fred	Philadelphia, Pa.
Bender, Howard Andes	Lititz, Pa.
Bender, John Richard	Lititz, Pa.
Berner, Carl William	Shenandoah, Pa.
Biemensderfer, Daniel Luke	Kissel Hill, Pa.
Bittle, Stanley Edward	Tremont, Pa.
Bleiler, Edgar Charles	Frackville, Pa.
Brandt, David Shelter	Lancaster, Pa.
Brant, John Gordon	Friedens, Pa.
Brecht, Robert Paul	Lancaster, Pa.
Brenner, Stanley	Witmer, Pa.
Brinkman, Franklin Krauskop	Lancaster, Pa.
Brobst, Arthur Leroy	Lancaster, Pa.
Brown, Arthur Ellis	Nottingham, Pa.
Brown, Charles Byron	Lancaster, Pa.
Brown, Jacob Hay	Lancaster, Pa.
Brown, Jasper Roger	Esterly, Pa.
Brown, John William	Lancaster, Pa.
Browne, George Davenport	Lancaster, Pa.
Brubaker, Abram Kurtz	Lancaster, Pa.
Brubaker, William Felker	Mt. Joy, Pa.

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Buckius, Walter Roberts	Lancaster, Pa.
Burkholder, Henry Clay	Lancaster, Pa.
Burkholder, Paul Ebersole	Elizabethtown, Pa.
Burns, William Robert	Lancaster, Pa.
Campbell, Arthur Emerson	Safe Harbor, Pa.
Campbell, Stell Parker	Millburn, N. J.
Carner, Charles Franklin	Roaring Branch, Pa.
Carpenter, Henry Geistweit	Mt. Joy, Pa.
Chalfant, Clyde Hurst	Lenover, Pa.
Clarkson, Claude Senft	Cochranville, Pa.
Clever, Samuel Kelso	Shippensburg, Pa.
Colvin, William MacDowell	Schellburg, Pa.
Cochran, John Franklin	Lancaster, Pa.
Cox, John Alexander	Lancaster, Pa.
Crawford, John Graybill	Mifflintown, Pa.
Cresswell, Robert Nicholas	Petersburg, Pa.
Dailey, Earl Charles	Lancaster, Pa.
Daugherty, Davis Clifton	Butler, Pa.
Davidson, James Ferdinand	Oshkosh, Wis.
Davis, Benjamin Franklin	Lancaster, Pa.
Deacon, Warren McAllister	Strasburg, Pa.
Deckert, Daniel	Schuylkill Haven, Pa.
Deibert, George Charles	Landingville, Pa.
Dembo, Leon Haskins	Lancaster, Pa.
Derr, Frank Geary	Marietta, Pa.
Dietrich, David Alton	Hublersburg, Pa.
Diffenderfer, Frank Ludwig	Reading, Pa.
Diller, Samuel William	Lancaster, Pa.
Doebler, Walter Boardman	Lancaster, Pa.
Draper, Charles Herbert	Lancaster, Pa.
Eby, Claude	Leaman Place, Pa.
Elder, Edward Brisbin	Harrisburg, Pa.
Ensminger, Frank Daniel	Manheim, Pa.
Erb, Zenas Harnish	Lititz, Pa.
Eshleman, Absalom Oliver	Terre Hill, Pa.
Fenstermacher, Erwin Franklin	Coplay, Pa.
Ferguson, John Herman	Clearfield, Pa.
Flickinger, Jay Harold	New Holland, Pa.
Foltz, Christian Gingrich	Palmyra, Pa.

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Foltz, Frederic Steinman	Lancaster, Pa.
Forstburg, Frank McLaughlin	Media, Pa.
Forstburg, Robert Belinius	Media, Pa.
Fortney, Paul	Lancaster, Pa.
Fox, Paul Nathan	New Bloomfield, Pa.
Fox, Reginald Judson	New York, N. Y.
Frantz, Abram Peters	Lancaster, Pa.
Frantz, David Herr	Lancaster, Pa.
Frauenfelder, Elton Adam	Hamburg, Pa.
Frey, Charles Haverstick	Lancaster, Pa.
Frey, Norman Remley	Lancaster, Pa.
Freymeyer, Daniel Klopp	Reinhold's Station, Pa.
Garrison, Paul Remington	Columbia, Pa.
Garvey, James Farrell	Lancaster, Pa.
Garvey, Thomas Billroth	Lancaster, Pa.
Gehman, Willis Ralph	Souderton, Pa.
Geist, Ira Stoner	Lancaster, Pa.
Gerz, Donald Alexander	Lancaster, Pa.
Gleasner, Albert Ralph	Shanksville, Pa.
Gleasner, Willard	Berlin, Pa.
Gonder, Carlos Guy	Boswell, Pa.
Gould, Howard Culp	Mt. Carmel, Pa.
Goyne, William Leonard	Ashland, Pa.
Graupner, Frederic William	Harrisburg, Pa.
Grebe, Louis Frederick	Stoney Creek Mills, Reading, Pa.
Gregory, Norman Berlin	Gilbert, Pa.
Griesemer, Raymond Clarence	Allentown, Pa.
Griel, Frank Conrad	Lancaster, Pa.
Groff, Nelson Forney	East Petersburg, Pa.
Grosh, Earl Brandt	Lititz, Pa.
Grubb, Howard Scott	Quarryville, Pa.
Grube, John Franklin	Lancaster, Pa.
Habecker, John Shank	Rohrerstown, Pa.
Hackman, William Huber	Womelsdorf, Pa.
Hager, William Henderson	Lancaster, Pa.
Hall, Ray Baker	Lancaster, Pa.
Hambleton, Jerre Brown	Wakefield, Pa.
Hammond, William Allen	New Holland, Pa.

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Harnish, David Paul	Lancaster, Pa.
Harnish, Raymond Brown	Lancaster, Pa.
Harsh, Amos Urich	Pittsburg, Pa.
Hayes, Paul Goodman	Lancaster, Pa.
Heiges, George Leonard	Manheim, Pa.
Helff, Norman Earl	Hummelstown, Pa.
Heilig, Percy Byssbe	Mt. Joy, Pa.
Heller, Iden Dalbey	Lancaster, Pa.
Heine, Ferdinand	Lancaster, Pa.
Herr, Harry Trout	Landisville, Pa.
Hess, Daniel Thompson	Quarryville, Pa.
Hess, Edgar Garber	Lancaster, Pa.
Hess, Henry Lloyd	Lancaster, Pa.
Hetrich, George Roberts	Birdsboro, Pa.
Hoffman, William Edwin	Tyrone, Pa.
Hoke, Walter Lee	Walkersville, Md.
Hollinger, John Hertzler	Lancaster, Pa.
Holben, Wilmer Phaon	Allentown, Pa.
Hollinger, Reah	Lancaster, Pa.
Holston, Henry Reiss	Pottsville, Pa.
Holzinger, Charles Henry	Willow Street, Pa.
Houser, Roland Rollman	Lancaster, Pa.
Hoyt, Gladding Powell	Columbia, Pa.
Hunsecker, Paul Leon	Leola, Pa.
Hunter, Ellis Daniel	Stoney Creek Mills, Reading, Pa.
Illingworth, Henry Snyder	Bedford, Pa.
Ilyus, Edmund Burwell	Lancaster, Pa.
Jerrell, Ralph Elmer	Bridgeton, N. J.
Johnson, Ethelbert	Marietta, Pa.
Keller, Raymond Hamilton	Mt. Joy, Pa.
Kendig, Benjamin Franklin	Salunga, Pa.
Kessler, Edward John	Philadelphia, Pa.
Kinzer, William Slaymaker	Lancaster, Pa.
Kirwan, John Edwin	Baltimore, Md.
Klein, Richard Henry	Lancaster, Pa.
Knecht, Walter Nevin	Parvin, Pa.
Koorie, Azis Alexander	Patterson, N. J.
Kramer, Max Preston	Gap, Pa.

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Landis, Allen	East Petersburg, Pa.
LeFevre, Chauncey Pennox	Quarryville, Pa.
Lefever, Wilmer Brinton	Reading, Pa.
Leidich, Raymond	Tremont, Pa.
Leimbach, Milton William	Baltimore, Md.
Lenhard, John Hershey	Mountville, Pa.
Levan, Joseph Orndorff	Alexandria, Pa.
Line, Loy Elmer	Altoona, Pa.
Livingston, Richard Alvin	Lancaster, Pa.
Lohr, Jacob Donald	Stoyestown, Pa.
Long, James Rutter	Drumore, Pa.
Longenecker, Ephraim Ray	Baker's Summit, Pa.
Lutz, Joseph Russell	Lancaster, Pa.
McAllister, Lloyd	West Willow, Pa.
McClellan, Raymond Austin	Jordan, Pa.
McClintock, Emmet Karl	Tyrone, Pa.
McCormick, Clarence Edgar	Sparrows Point, Md.
McGovern, John Thomas	Lancaster, Pa.
McGovern, Walter Hager	Lancaster, Pa.
McMullin, Samuel James	Millheim, Pa.
Madison, Richard Calvin	Lancaster, Pa.
Manette, Harry Leo	Brockport, Pa.
Mark, George Albert	Lancaster, Pa.
Martin, Adam	New Holland, Pa.
Marino, Charles Arthur	Port Washington, L. I.
Marino, John Michael	Port Washington, L. I.
Mathias, Thomas Jacob	Manor, Pa.
Mellinger, Edward Roscoe	Lancaster, Pa.
Meminger, Cyrus Hollinger	Lancaster, Pa.
Merrill, Charles Alvin	Garrett, Pa.
Meyer, David Paul	Rohrerstown, Pa.
Miller, Claude Edgar	Wyomissing, Pa.
Miller, James Donald	Landisville, Pa.
Miller, Karl Matz	Lancaster, Pa.
Miller, Lorenz William	Pottsville, Pa.
Miller, Maurice William	Summit Hill, Pa.
Miller, Rupert Griel	Lancaster, Pa.
Mohler, Irvin Charles	Lancaster, Pa.
Moore, James Penrose	East Downingtown, Pa.

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Moorehead, Joseph Watson	Philadelphia, Pa.
Moorehead, Wilbert Earl	Imler, Pa.
Moss, Max	Lancaster, Pa.
Mott, Henry	Upper Montclair, N. J.
Mounts, Walter James	Reading, Pa.
Mowery, Harry Benkert	New Holland, Pa.
Moyer, Donald Grosh	Mountain Sunset, Wernersville, Pa.
Moyer, Elmer Harold	Perkasie, Pa.
Mumma, Stanley Nissley	Landisville, Pa.
Myers, Frank Brenner	Lancaster, Pa.
Myers, Ralph Schnader	Terre Hill, Pa.
Mylin, Clement Rodney	Willow Street, Pa.
Mylin, Edward Everett	Lancaster, Pa.
Nenstiel, Arthur Karl	Johnstown, Pa.
Newpher, James Oliver	Mt. Joy, Pa.
Nixon, John Hartman	Lancaster, Pa.
Noecker, Samuel Morris	Camden, N. J.
Noecker, Walter Kohn	Camden, N. J.
Ormrod, George Henry	Emaus, Pa.
Pascoe, Robert Malcome	Allentown, Pa.
Paules, Charles Elmer	Marietta, Pa.
Phillips, Oliver	Ebensburg, Pa.
Pry, Hugh Mentzer	Keedysville, Md.
Ranck, Mahlon	Lancaster, Pa.
Reiter, John Harkey	Pottsville, Pa.
Reese, Gordon Merritt	Lancaster, Pa.
Rese, John William	Avalon, Pa.
Rhode, Luther Winfield	Lancaster, Pa.
Rice, Arthur Jacob	Dallas, Pa.
Robinson, John Kenney	Mifflintown, Pa.
Rochow, Oscar Otto	Lancaster, Pa.
Rohrer, Harrison Reuben	Orwigsburg, Pa.
Rohrer, Robert Hensel	Quarryville, Pa.
Rudy, Robert Bartel	Lancaster, Pa.
Rupley, David Besore	York, Pa.
Salen, James	Tremont, Pa.
Sassaman, William Henry	Breinigsville, Pa.
Schaeffer, John Adam	Fleetwood, Pa.

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Schantz, Howard Roeder	East Greenville, Pa.
Schantz, James Roeder	East Greenville, Pa.
Shappell, Clarence Edgar	Hamburg, Pa.
Schiedt, Richard Conrad	Lancaster, Pa.
Schock, Arthur Patterson	Mt. Joy, Pa.
Seibert, Allan Benton	Clear Spring, Md.
Seitz, Jacob Walter	Rohrerstown, Pa.
Sener, John Fred	Lancaster, Pa.
Shank, Oscar Thomas	Snow Shoe, Pa.
Shirk, Paul Kern	Leola, Pa.
Shonk, Alvin Edwin	Mt. Joy, Pa.
Showalter, John Clemens	New Holland, Pa.
Shreiner, Henry Adam	Lititz, Pa.
Shriner, Edward George	Frederick, Md.
Sims, William Carson	Lancaster, Pa.
Singer, Charles Kellemberger	Paradise, Pa.
Skiles, John Dunlap	Lancaster, Pa.
Skottowe, Edmund	Narvon, Pa.
Slagen, John Albert	Lancaster, Pa.
Smith, Charles Archie	Osterburg, Pa.
Smith, Eugene Carter	Quarryville, Pa.
Smull, Thomas Lorenzo	Port Washington, L. I.
Snyder, Franklin Faust	Lancaster, Pa.
Spangler, Glenn Rudolph	McConnellsburg, Pa.
Starr, Ralph Edwin	Klingerstown, Pa.
Stoner, Harry Shaub	Lancaster, Pa.
Stormfeltz, Clarence Sener	Lancaster, Pa.
Stoudt, Oscar Mininger	Quakertown, Pa.
Strickler, Alfred Burak	Columbia, Pa.
Strominger, Troup Chester	Mechanicsburg, Pa.
Stufft, Merle	Imler, Pa.
Swarr, Samuel Vincent	Landisville, Pa.
Thomas, Howard Weisner	West Leesport, Pa.
Thompson, Daniel Herbert	Bridgeton, N. J.
Trexler, George Washington	Lehighton, Pa.
Troll, Conrad William	St. Clairsville, Ohio.
Ward, Paul Cameron	Pennsylvania Furnace, Pa.
Ward, Warren Simon	Pennsylvania Furnace, Pa.
Weagley, Marburg Downin	Waynesboro, Pa.

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Weber, Mahlon Wenger	Ephrata, Pa.
Weaver, Edward Benjamin	Lancaster, Pa.
Weaver, Herbert Bachman	Lancaster, Pa.
Weaver, Houston Emerson	Lancaster, Pa.
Weaver, John William	Lancaster, Pa.
Weaver, William Wiley	Lancaster, Pa.
Werner, Clark John Carroll	Allentown, Pa.
Whitehead, Simon Peter	Manor, Pa.
Witmer, Christian Coover	Reamstown, Pa.
Wolf, Charles Eckert	Brickerville, Pa.
Woods, George Boyd	Leaman Place, Pa.
Woods, John Scott	Leaman Place, Pa.
Wotring, Clayton Warren	Jordan, Pa.
Yoder, Robert Emery Patterson	Allentown, Pa.
Zimmerman, Clarence Arthur	Haddonfield, N. J.
Zimmerman, Ivan Martin	Lancaster, Pa.

SUMMARY

Graduate Students	24
Seniors	47
Juniors	73
Sohpomores	85
Freshmen	69
	298
Academy	282
Total	580
Deduct names given twice	22
Total	558

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UNIV. OF MICHIGAN
MAR 1914

Franklin and Marshall College

Lancaster, Pennsylvania

The Catalogue

1913-1914

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Catalogue

OF

Franklin and Marshall College

LANCASTER, PENNSYLVANIA

1913-1914

PRESS OF
THE INTELLIGENCER
LANCASTER, PA
1914

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COLLEGE CALENDAR

1913

Examinations for Entrance.....September 8–9
First semester begins at 10 a. m.....September 11
Thanksgiving Day recess.....November 27–29
Christmas vacation begins at 12:20 p. m...Dec. 19

1914

College exercises begin at 8:10 a. m.....January 6
Semester examinations.....January 22–28
Registration.....January 28–29
Second semester begins.....February 2
Washington's Birthday—Holiday.....February 22
Easter recess.....April 9–13
Anniversary of Goethean Literary Society..May 1
Senior examinations.....May 4–8
Anniversary of Diagnothian Literary Society..May 8
Senior vacation begins.....May 11
Ascension Day—Holiday.....May 21
Junior Oratorical Contest at 7:30 p. m.....June 6
Baccalaureate Sunday.....June 7
Advisory Council of Alumni at 10 a. m.....June 9
Meeting of the Board of Trustees at 2 p.m. June 9
Class Day exercises at 3 p. m.....June 9
Fraternity and Class Reunions.....June 9
Literary Society reunions at 10 a. m.....June 10
Meeting of the Alumni Association,
at 11:30 a. m.....June 10

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COLLEGE CALENDAR

1914

Alumni Luncheon, Campus, at 12:30 p.m...June 10
Annual baseball game, Athletic Field,
at 3 p. m.....June 10
Meeting of the Phi Beta Kappa Fraternity
at 6:45 p. m.....June 10
Phi Beta Kappa Oration at 7:30 p. m.....June 10
Alumni Banquet at 9 p. m.....June 10
Seventy-eighth Annual Commencement
at 9 a. m.....June 11
Summer vacation of thirteen weeks.
Examinations for entrance.....September 7–8
Registration.....September 9
"Make-up" examinations.....September 9
First semester begins at 10 a. m.....September 10
Thanksgiving Day recess.....Nov. 26–28
Christmas vacation begins at 12:20 p. m.....Dec. 18

1915

"Make-up" examinations.....January 4
College exercises begin at 8:10 a. m.....January 5
Semester examinations.....January 21–27
Second semester begins.....February 1
Washington's Birthday—Holiday.....February 22
Easter recess.....April 1–5
Seventy-ninth Annual Commencement....June 10

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BOARD OF TRUSTEES

Elected by the Board

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Lancaster, Pa.

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Lancaster, Pa.

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A. C. KEPLER.....1917
Lancaster, Pa.

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Lancaster, Pa.

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EDWARD H. RENINGER.....1917
Allentown, Pa.
REV. F. C. SEITZ.....1918
Allentown, Pa.
L. B. KEIPER.....1918
Lancaster, Pa.
HENRY H. HARVEY.....1918
Wilkes-Barre, Pa.
C. C. LEADER.....1919
Shamokin, Pa.
GEORGE F. BAER, LL.D.....1922
Reading, Pa.
E. S. FRETZ.....1922
Pottstown, Pa.
REV. N. C. SCHAEFFER, D.D., LL.D.....1923
Lancaster, Pa.
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Freeland, Pa.

Elected by the Synod of the Potomac

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Chambersburg, Pa.
J. W. WETZEL, ESQ.....1919
Carlisle, Pa.
REV. A. S. WEBER, D.D.....1920
Baltimore, Md.
GEORGE D. ROBB.....1920
Altoona, Pa.
ROBERT L. MOTTER.....1921
York, Pa.
REV. CHARLES W. LEVAN, D.D.....1923
Alexandria, Pa.

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Elected by the Pittsburgh Synod

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HON. JOHN M. JAMISON.....1916
Greensburg, Pa.
WM. R. BARNHART.....1921
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J. W. WETZEL.

Observatory

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Academy

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W. H. HAGER, A. C. KEPLER,
F. C. SEITZ.

Laboratory and Museum

A. C. KEPLER, S. P. HEILMAN,
R. L. MOTTER, JOHN M. JAMISON,
M. F. BARINGER.

Gymnasium and Athletics

H. S. WILLIAMSON, W. H. HAGER,
L. B. KEIPER, E. H. RENINGER,
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The following Alumni have been elected as members of the Advisory Council of Alumni, authorized by the Board of Trustees and by the Alumni Association of Franklin and Marshall College:

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T. B. APPEL, M. D., '89, Lancaster, Pa.
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HON. GEO. KUNKEL, '76, Harrisburg, Pa.
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FACULTY

HENRY HARBAUGH APPLE, A.M., D.D., LL.D.,
President of the College; Upon the Geo. F. Baer Foundation.
441 College Avenue.

JOHN SUMMERS STAHR, Ph.D., D.D., LL.D.,
J. W. Nevin Professor of Mental and Moral Science, Aesthetics and the Philosophy of History.
445 West James Street.

JEFFERSON E. KERSHNER, Ph.D.,
Professor of Mathematics and Physics.
445 West Chestnut Street.

GEORGE FULMER MULL, A.M., LITT.D.,
Professor of the Latin Language and Literature.
431 West James Street.

RICHARD CONRAD SCHIEDT, A.M., PH.D., SC.D.,
The B. F. Fackenthal, Jr. Professorship of Natural Science (Biology and Geology).
1043 Wheatland Avenue

ANSELM VINET HIESTER, A.M., SC.D.,
Professor of Political and Social Science.
320 Race Avenue.

CLARENCE NEVIN HELLER, A.M.,
Professor of Greek.
230 Lancaster Avenue.

HERBERT HUEBENER BECK, A.C.,
Professor of Chemistry and Mineralogy.
Y. M. C. A. Building.

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A. THOMAS G. APPLE, A.M.,
Professor of Mathematics and Astronomy.
237 Lancaster Avenue.

H. M. J. KLEIN, PH.D.,
Audenried Professor of History and Archæology.
548 West James Street.

VICTOR WILLIAM DIPPELL, PH.D.,
Professor of Modern Languages.
563 West Walnut Street.

JOHN NEVIN SCHAEFFER, B.LITT., OXON.
Professor of Classics.
25 South West End Avenue.

HOWARD BRISTOL GROSE, JR., PH.D.,
Professor of English.
351 West Walnut Street.

CHARLES W. MAYSER,
Professor of Physical Education.
55 North West End Avenue.

M. W. RAUB, M.D.,
Curator of the Museum.
329 North West End Avenue.

WILLIAM EDWIN WEISGERBER, PH.M.,
Assistant in Chemical Laboratory.
413 North Charlotte Street

HOWARD HIESTAND M. BOWMAN, PH.B.,
Assistant in Biological Laboratory.
740 Chester Avenue.

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On Non-Athletic Organizations

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FRANKLIN AND MARSHALL COLLEGE

History and Description

Franklin and Marshall College was formed by the union of two older educational institutions which in their independent existence labored for common ideals and aims and ministered to a common constituency. Franklin College had been maintained in Lancaster, Pa., for fifty-five years and Marshall College had thrived for seventeen years in Mercersburg, Pa., when by an act of the Legislature of Pennsylvania they were merged and consolidated under the name of Franklin and Marshall College, to be located in the city of Lancaster, or its immediate vicinity. The effort to enlarge their sphere of usefulness, by joining their means and labors under one organization, enabled them to confer a more extensive benefit upon the citizens of this state, in the promotion of liberal and scientific learning. The wisdom of that act is justified in the rich fruitfulness and illustrious history of Franklin and Marshall College as an aggressive and vigorous institution for the promotion of higher education.

Franklin College

The educational history of this institution runs back to the trying times of the latter part of the eighteenth century. The charter was granted March 10, 1787. When the infant republic was

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being tested in its right to live and its ability to grow, Franklin College was founded in the historic borough of Lancaster. Those who conceived the purpose of this third oldest college in Pennsylvania and brought her into being were men prominent in the establishment of the nation and concerned with the development of her people. In the necessity of improving the younger generation, that there might be assured a strong American nation, it was especially requisite to minister to the educational needs of the large and thrifty, but greatly neglected, German population of the state. To this end, a petition was made to the Legislature of Pennsylvania to establish a German College and Charity School in Lancaster. "From a conviction of the necessity of diffusing knowledge through every part of the state, in order to preserve our present republican system of government, as well as to promote those improvements in the arts and sciences which alone render nations respectable, great and happy," it was asked, that an institution should be established, "to promote an accurate knowledge of the German and English languages, also of the learned languages, of mathematics, morals, and natural philosophy, divinity, and all such other branches of literature as will tend to make good men and useful citizens." Out of "profound respect for the character of his Excellency, the President of the State, her most distinguished citizen" and one of its projectors and liberal patrons, the school was called Franklin College. Among the first trustees were four signers of the Declaration of Independence, seven officers of the War of the Revolution, three who became gov-

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ernors of Pennsylvania, two distinguished jurists, and two who became senators of the United States. Of the ministers, seven were Reformed, seven Lutheran, one Moravian and one Roman Catholic. The specific aim of the college was further emphasized in the preamble of the act of incorporation. The grant was made because "The citizens of this state, of German birth or extraction, have eminently contributed by their industry, economy and public virtues to raise the state to its present happiness and prosperity"—and because of "a desire to increase and perpetuate the blessings derived to them from the possession of property and a free government"—"to train up a succession of youth to fully understand, zealously practice and strenuously defend the republican form of government." The scope of her sphere was thus national in its conception.

Founded in the interest of Germans, it was never intended to be, as it never became, exclusively a German institution, but it served to foster an appreciation of German life and literature, and formed an environment in which the sons of Germans might be educated without being alienated from the faith of their fathers. In emphasizing the English course and teaching "all those branches of literature which are usually taught in the colleges of Europe and America" it was a valuable agency to mediate German thought and mould German life into American manhood. Its purpose to give higher learning and liberal culture to the people of the interior of the state was always held firmly in view, and in the face of many difficulties in its en-

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vironment, and the lack of adequate financial support, it continued a blessed service during the time of its independent existence. Among the first trustees were the Hons. Thomas Mifflin, Thomas McKean, Robert Morris, George Clymer, Benjamin Rush, and the Revs. Drs. J. H. C. Helmuth, Casper Weiberg, Henry E. Muhlenberg and William Hendel. Its effective worth may be estimated from the statement of Benjamin Rush, who said of its faculty, "A cluster of more learned or better qualified masters, I believe, I have never met in any university." It included Dr. F. A. Muhlenberg, the botanist, Dr. Frederick Valentine Melsheimer, "the father of American entomology," and James Ross, author of a Latin and a Greek Grammar, and "one of the foremost classical scholars of America."

MARSHALL COLLEGE

A classical institution aiming to give an adequate training to those preparing for the ministry of the German Reformed Church was proposed prior to the year 1829, and in 1831 such a school was started at York, Pa. It was firmly established in 1833 when Dr. F. A. Rauch was placed in charge. In 1835 the name was changed to the "High School of the Reformed Church" and in the fall of the same year was removed to Mercersburg, the little village in the mountains, destined to become famous as the seat of "Mercersburg Theology." On the thirty-first day of March, 1836, the Legislature of Pennsylvania enacted "that the high school of the

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German Reformed Church, located at Mercersburg, in the county of Franklin, be and hereby is erected into a college, for the education of youth in the learned languages, the arts, sciences and useful literature." It was named after the eminent Chief Justice of the United States, "in testimony of respect for the exalted character, great worth, and high mental attainments of the late John Marshall." While owing its origin to a zeal on the part of a religious denomination, it soon broadened its sphere and enlarged its course to meet the needs and serve the wants of those seeking a liberal education to prepare for the professions of law and medicine or enter a business career. It had a choice coterie of professors, men of large vision and distinguished scholarship. Here it was that Dr. Frederick Augustus Rauch, fresh from the German University and in the full vigor of young manhood, produced his pioneer work on psychology and blended German philosophy with American thought. Here the giant theologian, Dr. John Williamson Nevin, taught and wrote, and by the vigor and richness of his works claimed attention from scholars of Europe as well as America. Associated with them were Dr. Philip Schaff, one of the foremost church historians of this country; Dr. Henry Harbaugh, the versatile poet preacher; the brilliant Dr. E. E. Higbee, who later filled a most successful administration as Superintendent of Public Schools of Pennsylvania; and the distinguished botanist and voluminous writer, Dr. Thomas C. Porter; the learned scientist, Dr. Traill Green; with Dr. William Marvel Nevin in the chair of

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English Literature. This faculty, worthy of any university, laid broad and deep the foundation of a true college. Their liberal educational views, profound Christian scholarship and high culture not only moulded students in personal contact, but gave inspiration and enthusiasm to education generally. Marshall College is the main source of the present institution, and its history presents ideals which in their simple dignity are worthy of our constant imitation.

FRANKLIN AND MARSHALL COLLEGE

Neither Franklin College nor Marshall College was able to accomplish in full measure the purpose for which it had been established, and both were looking for means to enlarge the scope of their work. As the result of mutual overtures they were united under a new charter, and Marshall College was removed to Lancaster in the spring of 1853, to carry the union into effect. The formal opening took place on June 7, 1853. The charter granted on April 19, 1850, empowers the College to grant "such degrees in the arts and sciences or other useful learning as have been usually granted in other colleges or universities in America or Europe."

Under the successful guidance of efficient presidents the College grew and prospered and furnished a remarkable history which bestows upon this age a rich and glorious heritage. In successive years her faculty and students increased, her campus was enlarged and her course strengthened and enriched. The proper course of historical development and

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the solidarity of her educational system has been preserved. The broad, liberal spirit which characterized Franklin College and the profound philosophy and Christian culture peculiar to Marshall College are united in the facilities and purposes of her thorough educational system in preparation for professional and technical training, as for all the duties of life.

The College bases its claim for patronage and support on the advantages which it offers for obtaining a thorough liberal education. The curriculum is adapted to afford training for culture and discipline and aims at thorough instruction, harmonious development and the formation of sound character. The studies are so arranged that the students, in their entire course, come in contact with the regular professors—men of ability, experience and enthusiasm in their respective departments—and receive in this way not only the highest measure of personal attention, but also the inspiration which the genuine scholar and teacher, by personal influence, always communicates.

The College is under the ownership and general control of a board of trustees, thirty in number, to be held in trust for the Eastern Synod, the Pittsburgh Synod, and the Synod of the Potomac of the Reformed Church in the United States. The Eastern Synod elects twelve, the Pittsburgh Synod three, and the Synod of the Potomac six members of the board for a period of ten years. The other nine are elected by the board, which also has power to fill all vacancies. While the College is under the general care of the Reformed Church in the United

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States, it imposes no sectarian requirements or restraint upon professors or students. The instruction and government of the students are committed to the faculty, whose members are elected by the board of trustees.

LOCATION

The College is located on elevated ground on the northwest side of Lancaster, a city of about 50,000 inhabitants, on the main line of the Pennsylvania railroad, between Philadelphia and Harrisburg. Lancaster is the county seat of "the garden spot of the United States" and the center of a network of electric railways. It has been a college town for a hundred and twenty-five years and has an atmosphere of culture and scholarship and a spirit of friendship and sympathy which is valuable to students of an institution of learning, and favorable to the development of strong, manly character.

CAMPUS

The area of college grounds is fifty-four acres, on which are conveniently grouped ten buildings. The older and original campus possesses large shade trees, with walks and driveways. At the northern end is an enclosed Athletic Field, properly arranged for football, baseball and track events. The tennis courts are outside of this enclosure. West of the College grounds is the New Buchanan Park of Lancaster City, and on the east, separated by College Avenue, are the buildings of the Theological Seminary of the Reformed Church in the United States.

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PRESIDENTS

The following have served as Presidents of Franklin and Marshall College:

Emanuel Vogel Gerhart, D.D., LL.D., 1855–66.
John Williamson Nevin, D.D., LL.D., 1866–76.
William Marvel Nevin, A.M., Pro. Tem., 1876–77.
Thomas Gilmore Apple, Ph.D., D.D., LL.D., 1877–89.
John Summers Stahr, Ph.D., D.D., LL.D., 1889–1909.
Henry Harbaugh Apple, A.M., D.D., LL.D., 1909– .

BUILDINGS AND EQUIPMENT

All the buildings are in first class condition and adapted for their particular uses. They are heated with steam and lighted by electricity, except the Library, where gas furnishes a softer light for reading.

Recitation Hall—This main building was erected on the campus in 1855. It is substantially built, three stories in height, with a graceful and conspicuous tower, surmounted by four small steeples. This is the center of college sentiment and tradition. It contains seven recitation rooms, the room of the Young Men's Christian Association, and in the rear the large college chapel.

Society Halls.—On either side of the recitation hall are two halls owned and used by the Diagnothian and Goethean literary societies. They were erected in 1856–7 and are both alike in arrangement. On the first floor each contains a library and social room, on the second floor a large and beautiful assembly room where the weekly meetings are held.

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For a short time during the Civil War they were used as hospitals. The two libraries contain over 18,000 well selected books. With one exception these are conceded to be the most valuable college literary society property in the country.

Gymnasium—The Gymnasium was built in 1890 through the generosity of a number of friends of the college and furnished by the efforts of the undergraduates. It has an ample exercise hall, supplied with apparatus suited to the systematic drill in gymnastics for which it was designed. It is equipped with the appliances for heavy work, such as horizontal and parallel bars, traveling rings, ladders, horse and striking bag. In the basement is the dressing room, supplied with lockers and provided with facilities for shower baths. It is additionally used for evening social functions in which the students are interested.

Library.—The Watts de Peyster Library was erected in 1897–98, at a cost of about $36,000, the gift of John Watts de Peyster, LL.D., of Tivoli, New York. It contains about 30,000 volumes, which, together with the libraries of the literary societies, make about 48,000 volumes accessible for the use of the students. It is the most beautiful building on the campus, a brick structure with stone trimmings, and can accommodate 75,000 volumes. The stack room is provided with metallic shelving and all conveniences usual in modern libraries. On the second floor is a reading room, where are kept on file all the best secular and religious papers and magazines of this country, as well as the leading English monthly and quarterly

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reviews. The following alcoves are endowed: Heine Alcove of German Literature, Buchheit Alcove of Philosophy and Ethics, W. U. Hensel Alcove of American and English Belle-Lettres, Class of 1889 Alcove of Political and Social Science, Diffenderffer Alcove of Pennsylvania History and Biography. The Library is a depository for government publications.

The Library and Reading Room are open every day in the week from 2 to 5 p. m., and, except Sunday, from 7 to 10 p. m. All persons are free to consult the books and periodicals on the shelves and tables during these hours. Books, or periodicals, taken out for use in private, may be kept for ten days, with the privilege of renewing them at the end of that period for another ten days.

Set into the wall, at the entrance, is a tablet of conglomerate marble from General de Peyster's home on the Hudson, bearing the following inscription: "This library is erected as a memorial of John Watts, *vir æquanimitatis*, and of Frederick de Peyster, *vir auctoritatis*, by a grandson and son, who, bearing both names, seeks to continue in their honor the good they did and taught him." In the waiting room are oil paintings of the former presidents of the College.

In front of the building is a statue of Abraham de Peyster, of heroic size, first erected in 1895, in Bowling Green, New York, opposite General de Peyster's ancestral home. It was presented to the College and placed on the campus when the library building was erected. Abraham de Peyster (1651–1728) was prominent in our colonial history and was the great-great-great-grandfather of General de Peyster, who erected the statue and the library building.

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Observatory.—Mrs. James M. Hood, of Frederick, Md., presented the College with the Daniel Scholl Observatory in 1884, as a memorial to her father, Daniel Scholl. She also provided the equipment and gave an endowment of $10,000 for its maintenance. It contains an 11-inch Clark-Repsold equatorial with micrometer and spectroscope, a 3-inch transit instrument by Ertel & Son, a Fauth chronograph, a Seth Thomas precision clock and a chronometer, together with a set of meteorological instruments, a universal instrument, with 10-inch circles, reading to single seconds, a students' telescope with 4-inch objective by Clark, equatorially mounted, with finding circles and driving clock; a sextant and other instruments available for studying problems of time, longitude, latitude and azimuth.

Through the generosity of Mr. M. T. Garvin, of Lancaster, Pa., the Observatory is also equipped with instruments by which the students are afforded opportunities for field work in engineering and surveying.

It is thus well equipped with all instruments necessary to gain a practical knowledge of astronomy, whether as an independent science, or in its bearings upon geodesy, navigation and surveying.

Science Building.—The Science Building is one of the finest of its kind in any college or university. It was built and equipped in 1900–01, at a total cost of $75,000. It is a three-story structure, of light colored brick; the laboratories are separated by fire-proof doors. It contains the Milton S. Hershey Chemical Laboratories, the B. Wolff, Jr.,

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Biological Laboratories, the Physical Laboratories, the Charles F. Rengier Geological Equipment, the George F. Baer Laboratory of Applied Electricity, a large museum, lecture rooms for the various departments, professors' studies, a reception room and the President's and Secretary's Offices.

The apparatus in the Physical Laboratory is used to make demonstrations in the general course of physics. The students make measurements upon physical quantities, so that the hand and eye are trained and the mind accustomed to habits of accuracy in carefully conducted investigation of the law of physics.

Among the instruments in the Laboratory of Applied Electricity are two 5-K. W. rotary converters, one variable speed alternator, a Prony break, a magnetic tester, a modified Fessenden contact maker, and voltmeters, wattmeters and ammeters, for direct and alternating currents.

The complete outfit of the thoroughly equipped chemical department is the gift of Mr. Milton S. Hershey, of Hershey, Pa. It includes the General Analytical and Private Laboratories with Assay and Balance Rooms.

The family of the late B. Wolff, Jr., of Pittsburgh, Pa., provided the department of Biology in memory of Mr. Wolff. It includes the full equipment of the General Biological Laboratory with all the neccessary microscopes and other instruments for each student as well as special laboratories for physiology, histology and embryology. These laboratories furnish unusual facilities for students who are preparing for the study of medicine.

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The geological equipment consists of a complete set of Sholer-Davis models and photographs illustrating structural and dynamical geology, relief maps representing in plaster of paris the physiographical and geological formation of the United States, a well selected collection of fossils for the thorough study of historical geology, and microscopic appliances. With the *Fahnestock* and *Heisler* collection of minerals, these afford exceptional opportunity for the study of geology.

The Herbarium includes the valuable collection of plants by the late A. P. Garber, M. D. This collection of phænogams and vascular cryptogams is accessible for reference and botanical work.

By an arrangement effected between the Linnæan Scientific and Historical Society of Lancaster, and the Trustees of Franklin and Marshall College, the Linnæan Society has removed its Museum and Cabinet to the College Building. In consequence of this removal, the College has the benefit and use of a very valuable collection of specimens in the different departments of Natural Science. It includes:

1. A complete skeleton of the *Dionoris giganteus*, of New Zealand, presented by Mr. J. M. Mays, of Philadelphia.

2. The collection of Coleoptera, made by the late Professor S. S. Rathvon, of Lancaster, presented to the College by Dr. Henry Bobb, in memory of his son, Eugene H. Bobb, A. M.

3. The extensive collection of terrestrial shells made by Rev. Dr. A. B. Kendig, of Brookline, Mass., purchased and presented to the College by

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Miss E. E. Smith, of Lancaster, Pa., to be called the A. B. Kendig collection.

4. The valuable ornithological collection of Dr. M. W. Raub, consisting of excellent mounted specimens of birds, including nearly all the birds of Pennsylvania.

5. Fine mounted specimens of the moose, deer heads, etc., by Mr. A. C. Kepler and Dr. S. T. Davis.

6. A valuable collection of Indian implements and relics, presented by the Rev. Ellis N. Kremer, D. D.

7. A large number of Lepidoptera and Coleoptera, presented by Dr. M. W. Raub.

8. A valuable collection of eggs of birds native to Lancaster county, by Prof. H. H. Beck.

9. The Fahnestock and Heisler collection of minerals have been carefully classified and arranged by Prof. Beck, in a large number of cases for the different sections of the museum, so as to make this department of great value in the service of scientific study.

Academy Buildings.—Two buildings are used by the Academy. The main building was completed in 1908 at a cost of about $100,000. It is 215 feet long, has two wings, 40x75 feet, and a chapel seating 350 boys.

GENERAL INFORMATION

Religious Observances

The students are confronted with the claims of Christianity in its most concrete and living form. A large proportion of the students are communicant

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members of the Church, and a Christian spirit underlies and animates the instruction in the different departments.

Church Services.—There is a regularly organized Christian congregation in the institution (St. Stephen's Reformed Church), the members of which are the students, the professors and their families, together with some families in the vicinity not directly connected with the College. The clerical members of the faculties serve as pastors, while the other officers are selected from the members of the congregation. A regular service is held in the College Chapel Sunday morning at 10:30 o'clock during the college year and every Wednesday afternoon in Lent, and the Sacrament of the Lord's Supper is observed four times a year.

All students are required to attend the Sunday service except the sons of parents who reside in Lancaster, or who belong to denominations other than that of the Reformed Church in the United States. To such persons permission is given to attend churches of their choice at the *special or written request of their parents or guardians, renewed each year.*

Morning Prayers—All students are required to attend a service each morning of the week, except Saturday, in the College Chapel, conducted by the President.

COLLEGE ORGANIZATIONS

Young Men's Christian Association.—The College has a Young Men's Christian Association which is devoted to the sustaining and extension of re-

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ligious life among the students. Meetings are held each Sunday evening, when an appropriate address is delivered by a minister or Christian layman of the College or city, and classes are formed for the study of missions. The association seeks to be of practical benefit to the development of Christian character and to render service to the students. It publishes at the beginning of each college year a Students' Hand Book, containing a map of Lancaster and useful information concerning the work and activities of the College.

Literary Societies.—Two literary societies, Diagnothian and Goethean, are maintained by the students, who own their society halls, which are beautifully furnished. Each society meets every Friday evening of the collegiate year. Membership is not compulsory, but is desired and encouraged by the faculty. These societies have had a flourishing existence for more than seventy-five years and are of great value for the intellectual development of the student. They maintain and publish the *College Student* as their literary organ.

Society membership is one of the qualifications for those who compete for various prizes offered by the College, as well as for admission to the Phi Beta Kappa graduate fraternity.

The Thomas C. Porter Scientific Society meets fortnightly and affords opportunity for the cultivation of interest and research in scientific studies. Several members of the faculty direct its operations.

Nevin Club.—This organization is named after the great theologian, Dr. John Williamson Nevin, a former president of Franklin and Marshall College,

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and is composed of students who intend to study for the ministry. It affords opportunity for association of those having a common aim in college work and is a constant appeal to all students for recognition of the claims of the service of the Christian ministry.

Fraternities.—Four national Greek Letter Fraternities have chapters and live in their own houses. These organizations work for the best interests of the College and take a prominent part in all its activities.

Phi Beta Kappa.—The college has a chapter in the Phi Beta Kappa fraternity, to whose membership honor men of each graduating class are elected. Under its auspices each commencement week an address is delivered by some distinguished scholar.

Social Clubs.—There are a number of local boarding clubs of a social and fraternal nature.

Musical Clubs.—The Glee and Mandolin Clubs render concerts at various places during the winter and spring months.

Dramatic Club.—The Green Room Club presents a play each year in Fulton Opera House in Lancaster. All students are eligible to membership. Selection is made by trial.

Senate.—The Senate, composed of twelve students, has direction and supervision of various activities and deportment of student life. The members are selected by their fellow students.

Press Club.—The object of this club is to afford actual work in correspondence with daily papers in the state.

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ATHLETICS

Ample facilities are afforded for athletic purposes, and all proper encouragement is given for the maintenance of athletic sports. Athletic matters are in the hands of the Athletic Association, to which all students belong. A Board of Governors appointed each year has supervision of all athletics. The college is a member of "The National Athletic Association of the United States." A graded course of physical training, under a competent instructor, is required in the Freshman and Sophomore years. A thorough physical examination is required and care is given to those who participate in athletic contests.

PUBLICATIONS

The College Student, founded in 1879, is published monthly during the college year under the auspices of the Diagnothian and Goethean Literary Societies. It is devoted to the development of literary activity among the students. A prize is offered each year to the student who contributes the best original piece of fiction.

The F. and M. Weekly reports the news of college work and life and aims to mould proper college spirit.

The Oriflamme is the college annual published by the Junior Class. It is illustrated and intended to present a summary of student life during the current scholastic year.

The College Calendar is issued by the Sophomore Class.

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The Nevonian is an annual published by the Senior Class containing the program and addresses of Class-Day.

The Obituary Record contains sketches of all alumni who died during the year and is printed annually by the Alumni Association.

The *Students' Hand Book* contains information especially valuable to new students. It is compiled by the Young Men's Christian Association.

The *Catalogue* is issued annually and gives information about the College as a whole and the register of students.

ALUMNI ASSOCIATIONS

The Alumni of the College have an association, the object of which is to keep alive the sentiment of affection for their Alma Mater, and to unite the graduates of successive years by a common tie of fellowship. Its meetings are held annually during commencement week. Various district alumni associations maintain organization by holding at least one meeting each year and tend to keep up and give practical shape to the interest felt by the alumni in the well-being of the College.

DEGREES

The College confers the degrees of Bachelor of Arts, Bachelor of Philosophy and Bachelor of Science upon graduation on those who satisfactorily complete the full courses of study as outlined in the catalogue.

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ADVANCED DEGREES

The degree of Master of Arts is conferred upon those who have received the degree of Bachelor of Arts from a reputable college and who have satisfactorily completed a prescribed course of study according to the general regulations governing graduate study. The degrees of Master of Philosophy and Master of Science are similarly conferred upon the holders of the corresponding bachelor's degrees. These graduate courses may be pursued either in residence or *in absentia* subject to the regulation that scientific courses can be pursued *in absentia* only where the student has access to laboratory or observatory.

Further particulars may be obtained by application to Prof. A. V. Hiester, Registrar of Graduate Courses.

COLLEGIATE YEAR

The collegiate year consists of two semesters. The first begins thirteen weeks after the Annual Commencement, and continues until the last week in January, including the Christmas recess of two weeks; the second begins immediately after the close of the first and continues until Commencement.

REPORTS

At the end of each semester the grade of each student in each course taken by him is recorded by the secretary. A report of his standing is then transmitted to his parent or guardian.

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EXPENSES

Each student is charged a contingent fee of one hundred dollars. This amount includes fees for Library and Reading Room, Laboratory and Gymnasium. It is payable in installments, as follows: five dollars on registration, fifty dollars for the first semester and forty-five for the second, within ten days from the beginning of each. A fee of five dollars is required of students who have work in the physical laboratory. An additional fee of one dollar is charged to those who fail to register at the time specified.

Any student failing to make payment within the required time, unless specifically excused, will suffer the loss of college privileges, and notice of such delinquency will be sent to parents or guardians. A graduation fee of five dollars is charged all students taking the bachelor's degree.

At the beginning of the year students are required to deposit fifty cents for a locker key in the gymnasium, one dollar for a locker key in the laboratories, and sums varying from five to fifteen dollars to cover the expense of breakage in the laboratories or to pay for expensive material used in their work. These sums, or the unexpended balances, are returned at the end of the year.

The student's personal expenses are determined largely by his habits and tastes, and are limited by his power of self control. Board and room are obtained in clubs at an average cost of $3.50 a week. In private families it varies from $4.00 to $5.00 a week.

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ANNUAL PRIZES

A gold medal is awarded to the member of the Senior Class who passes the most satisfactory examination in the German language. This prize has been permanently endowed by R. K. Buehrle, Ph. D., former Superintendent of Public Schools of Lancaster City.

A gold medal is given to the member of the Junior Class who is successful in competition at the Junior Oratorical Contest. This is called the Wetzel Oratorical Prize and has been endowed by J. W. Wetzel, Esq., Carlisle, Pa.

William H. Keller, Esq., of Lancaster City, has offered an annual prize of twenty-five dollars to be awarded at the end of the Sophomore year to the student who has made the best record in the study of Latin and Greek during the Freshman and Sophomore years.

Prof. H. E. Slagen,. A. M., of Lancaster City, offers an annual prize of ten dollars to members of the Junior Class for proficiency in Greek.

There are two prizes offered by both the Diagnothian and Goethean Literary Societies in an oratorical contest for members of the Sophomore and Freshman classes.

Mr. Jack L. Straub, of Lancaster, provided a one hundred dollar scholarship to an advanced student in biology, to be designated by the professor of that department, for special vacation work at one of the marine biological laboratories.

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REQUIREMENTS FOR ADMISSION

Students are admitted by certificate and on examination. In all cases they must present satisfactory testimonials of good moral character, and, if from other colleges, evidences of honorable dismissal.

It is desired that all applications be filed as early as possible.

Applications for admission to advanced standing in the college will not be received later than the opening of the Senior year.

CERTIFICATES

Students are received by certificate from approved schools and academies whose course of study fully covers the requirements for admission. The certificates must state the text-books used in preparation, and the exact amount of work done in each study, as specified in the blank forms furnished by the College and sent to the College direct from the principal of the preparatory school.

Certificates of the College Entrance Examination Board will be accepted.

EXAMINATIONS

Examinations for admission are held during commencement week and the week of the opening of the college year. Students applying for admission to advanced classes will be examined on both the preparatory work for entrance to college and on the studies previously pursued by the classes they propose to enter.

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ADVANCED STANDING

No student will be admitted to advanced standing later than the beginning of the Senior year. Students who come from another college must present full credentials for both college and preparatory work and a letter of honorable dismissal, to receive credit for an equivalent amount upon the records of the College. Others will be received at the discretion of the Committee on Admission or by examinations held only at the College.

SPECIAL COURSES

Students, not candidates for degrees, may be permitted to pursue special courses, for proficiency in which certificates may be granted; but this permission will be granted only to students of ability and character sufficient to insure their success. They may become regular students by completing all the work required in the number of courses for full standing in any year.

SUBJECTS FOR ADMISSION

For admission without condition the candidate must secure credit for 14½ units, a unit representing a year's work in a secondary school with four or five periods a week.

A.B. DEGREE.—Candidates for the A.B. degree must present Latin, 4 units, English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, History, 1 unit, making a total of 10½ units. The remaining units to make up a total of

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14½ may be selected from any of those specified below, including 2 units in either Greek or German.

PH.B. DEGREE.—Candidates for the Ph.B. degree must present Latin, 4 units, English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, Advanced Algebra, ½ unit, History, 1 unit, making a total of 11 units. The remaining units to make up a total of 14½ may be selected from any of those specified below, including 1 unit of Science and 2 units of German or French.

B.S. DEGREE.—Candidates for the B.S. degree must present English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, Advanced Algebra, ½ unit, Elementary Science, 1 unit, History, 1 unit, making a total of 8 units. The remaining units to make up a total of 14½ may be selected from any of those specified below, including 4 units in foreign languages, of which 2 must be in German or French.

SCALE OF VALUES

	UNITS.
English,	3
Latin, 2 years,	2
3d year,	1
4th year,	1
Greek, 1 year,	1
2d year,	1
German, Elementary, 2 years,	2
French, Elementary, 2 years,	2
History—Ancient,	1
Mediæval and Modern,	1
English,	1
American or Civil Government	1

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Mathematics—Elementary Algebra,	1½
Plane Geometry,	1
Solid Geometry,	½
Advanced Algebra,	½
Plane Trigonometry,	½
Physics, Theoretical and Practical,	1
Chemistry, Theoretical and Practical,	1
Biology or Botany,	1
Physical Geography	1

ENTRANCE EXAMINATION REQUIREMENTS

ENGLISH.

The requirements in English are those adopted by the Association of College and Preparatory Schools in the Middle States and Maryland.

Preparation in English has two main objects; (1) command of correct and clear English, spoken and written; (2) ability to read with intelligence and appreciation. The candidate will be required to present evidence of a general knowledge of the subject matter, and to answer simple questions on the lives of the authors as specified below. The form of examination will be the writing of a paragraph or two on each of several topics to be chosen by the candidate from a considerable number set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. The essentials of English Grammar are presupposed, and no candidate will be accepted whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs.

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For 1914.—Shakespeare's *The Merchant of Venice* and *Midsummer Night's Dream;* Old Testament, *Daniel;* Goldsmith's *The Vicar of Wakefield;* Dickens' *David Copperfield;* Stevenson's *Treasure Island;* Thoreau's *Walden;* Lowell's *The Vision of Sir Launfel;* Gray's *Elegy in a Country Churchyard.*

For 1915.—Shakespeare's *As You Like It* and *Julius Cæsar;* Franklin's *Autobiography;* Goldsmith's *The Deserted Village;* Scott's *Ivanhoe;* Irving's *Sketch Book;* Lamb's *Essays of Elia;* Scott's *The Lady of the Lake;* Longfellow's *The Courtship of Miles Standish.*

LATIN.

Cæsar, The Gallic War, Books I-IV. *Cicero,* six orations (orations against Catiline, for the Manilian Law and For Archias). *Vergil,* six books of the Aeneid. Simple exercises in Latin prose composition.

The chief aim of the examination will be to test the candidate's knowledge of the subject matter, vocabulary, grammatical forms and constructions. This will also be expected from the showing of certificates of admission.

GREEK.

First Greek Book. *Xenophon,* Anabasis, books I-IV. Fifty Exercises in elementary prose composition.

GERMAN.

Such knowledge of the language is required as will indicate a thorough acquaintance with the

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grammar and as may be obtained by the reading of at least 200 pages. The examination covers the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

MATHEMATICS.

Algebra A.—To Quadratics. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

Algebra B.—Quadratic equations, both numerical and literal. Simple cases of equations, with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the *n*th term and the sum of the terms of arithmetical and geometric progressions with applications. (Well's University Algebra to Section XXXI, or Robinson's University Algebra to Chapter VI.)

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Advanced Algebra C.—Progressions, permutations and combinations, binomial theorem, series, logarithms, to theory of equations.

Plane Geometry.—The usual theorems and constructions of good text books, including the general properties of plane rectilinear figures, the circle and measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces. (Wentworth's five books.)

Solid Geometry.—The usual theorems and constructions of good text books, including the relations of planes and lines in space; the properties and measurements of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of surfaces and solids. (Wentworth's Solid Geometry.)

HISTORY.

(*a*) *Ancient History*, with special reference to Greek and Roman history, including also a short introductory study of the more ancient nations and the chief events of the early Middle Ages down to the death of Charlemagne (814).

(*b*) *Mediæval and Modern History*, from the death of Charlemagne (814) to the present time.

(*c*) *English History.*

(*d*) *American History or Civil Government.*

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Candidates for admission will be given credit for not more than two units in History.

SCIENCE.

Elementary Physics.—A careful study of a standard text book for high schools and academies, for the purpose of obtaining a connected and comprehensive view of the subject, covering mechanics, sound, heat, light and electricity. About thirty individual experiments in the laboratory.

Elementary Chemistry.—A course of at least sixty experiments performed by the pupil and accompanied by systematic instruction in the common elements and their compounds, including chemical equations, the simple gas laws, and the fundamental atomic and molecular theories.

Zoology.—A course covering the work of one year, including the dissection of types of the most important groups of the animal kingdom, and a study of the principles of the morphology, physiology, and the classification of animals.

Botany.—The applicant will be expected to have a fairly definite knowledge of the seed and seedling, root, stem, and leaf, the flower and fruit, the cell, and to know something about physiological processes, ecology, and the natural history or classification of plants.

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COURSES OF INSTRUCTION

General Statement

Franklin and Marshall College aims to offer to the student an opportunity to secure such general culture as may tend to develop him into a useful citizen without preparing him for any special profession; to enlarge his scholarship, broaden his views and arouse an intelligent interest in all that is best in modern civilization. The course is based upon such intellectual discipline as has been established by centuries of testing as well as by channels opened up by modern scholarship whose value has been proved equal to that of any agencies employed in the past. Choice of electives is given to the student under such restriction as to secure reasonable breadth for the foundation on which his education is to be built.

The College offers three general courses of study leading to the three degrees of A.B., Ph.B. and B.S.

The A.B. course requires the pursuit of the ancient languages, Latin and Greek, for two years, and one of them for one year more. An exception in this requirement is made in the case of students who begin Greek in college and who are required to take four years of Greek. The A.B. course also includes four years of modern languages, leaving room for choice between German and French.

The Ph.B. course includes two years of Latin with three years of German and two years of French. In

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science study, this course is resolved into three different groups, viz., (1) one year of chemistry and three years of biology; (2) one year of biology and three years of chemistry; (3) one year of biology and one year of chemistry, with either calculus and advanced analytical geometry or applied electricity and physical measurements.

The B.S. course includes two years of German and French, and one of them for one year more. The course is resolved into two groups, allowing choice in biology or chemistry.

The minimum number of hours of recitation or lectures required in each class is, Freshman, 17; Sophomore, 17; Junior, 16; Senior, 15. No student shall be permitted to take more than the minimum except by special permission, and no student shall be allowed in any case to take more than 21 hours, including conditions and substitutions. No substitute may be taken for a required study except upon consent of the professor concerned and upon formal action of the faculty. Two hours of laboratory work count as one hour of recitation, except in Biology, where the value of laboratory hours is indicated under each course. Physical exercise is compulsory in the Freshman and Sophomore classes in addition to the above requirements.

PHILOSOPHY

PROFESSOR STAHR

The course of instruction in this department has two ends in view: To familiarize the students with the methods of philosophic thought and discipline

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the mind in thinking so as to look for the ultimate ground of knowledge; and to give him such a view of himself and of his relation to society, to nature and to God, that he will be able to correlate all the branches of learning in a system of liberal culture.

(*a*) PHILOSOPHY OF HISTORY.—A course of lectures with oral and written recitations. Sophomore elective. One hour a week; second semester.

(*b*) PSYCHOLOGY.—The study of Psychology takes up the study of the nervous system and its relation to consciousness. Angell's Psychology, with free lectures and recitations. Junior requirement. Three hours a week; first semester.

(*c*) ÆSTHETICS.—A course of lectures on Æsthetics, outlining the theory of the beautiful with its modifications, the sublime and the comic. Afterwards the class studies the application of æsthetic principles in the development of art. Junior requirement. Two hours a week; second semester.

(*d*) ETHICS.—A course of lectures. The first part is devoted to Metaphysical Ethics, including a discussion of the nature of Freedom and the Formation of Character. The second part, or Practical Ethics, treats of the nature of Virtue, Duty and the Good, and the differentiation of the latter in the forms of Right, Social Cointegration and Religion. The lectures are accompanied by recitations, free discussions and essay writing. Senior requirement. Two hours a week throughout the year.

(*e*) PEDAGOGY.—Includes the study of Philosophy of Education and History of Education, as well as the practical application of Pedagogic Principles. This course is important, not only to students who

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expect to teach, but also to others who desire a thorough grounding in the principles of true education and culture. Senior elective. Two hours a week throughout the year.

(*f*) LOGIC.—An optional course open to Juniors and Seniors. Two hours a week; second semester.

GREEK

PROF. HELLER. PROF. SCHAEFFER

The study of Greek is required of all candidates for the degree of Bachelor of Arts. Courses are offered for two classes of students: (1) those who enter with full credit for the preparatory work in Greek, and (2) those who begin Greek in the college. The former are required to take Courses *c* and *d;* and, in addition, Course *e* or Course *g* is required of those who do not elect one year of Latin after the Sophomore year. Students who begin Greek after entrance are required to take Courses *a*, *b*, *d*, and *g* or *e*.

The purpose aimed at in the department is to give the student such a mastery of the accidence and syntax of the language and such command of its vocabulary as will enable him to read simple Attic Greek with some degree of rapidity and ease, and at the same time to make him acquainted with Greek literature in all of its principal divisions, as illustrated by the works of its greatest writers, as well as familiar with the customs and institutions of the Greek people.

(*a*) ELEMENTARY GREEK.—First Greek Book. Anabasis, begun. Freshman A.B. requirement for

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those who enter without Greek. Four hours a week throughout the year.

(*b*) SECOND YEAR GREEK.—Anabasis, continued to end of Book IV. Homer, Iliad, begun. This course is designed to fit the student to take up Course *d*. Sophomore A.B. requirement for those who have completed Course *a*. Three hours a week throughout the year.

(*c*) Xenophon, Hellenica. Greek prose composition. Herodotus, Book VIII. Homer, Iliad, begun. Freshman A.B. requirement for those who have credit for the preparatory work in Greek. Four hours a week throughout the year.

(*d*) Homer, Iliad, continued. Plato, Apology. Euripides, Alcestis. Required of Sophomores who have completed Course *c* and of Juniors who have completed Course *b*. Three hours a week throughout the year.

(*e*) GREEK DRAMA.—Æschylus, Prometheus Bound. Sophocles, Œdipus Rex. Aristophanes, Frogs. Lectures on the history of the Greek drama and theater. Elective. Open to Juniors who have had Course *d*, and by special permission to others. Two hours a week throughout the year.

(*f*) LYRIC GREEK.—Theocritus, Idylls. Pindar, Olympian and Pythian Odes. Elective. Open to those who have had Course *e*. Two hours a week throughout the year.

(*g*) Selections from the Attic Orators. Required of Seniors who began Greek in their Freshman year. Open to others. Two hours a week throughout the year.

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(*h*) NEW TESTAMENT GREEK.—This course consists of a study of the characteristics of the language of the New Testament, the careful reading of one of the Gospels and one of the Epistles of St. Paul, and frequent reports prepared by members of the class. Each student is expected to own Nestle's Novum Testamentum Graece et Latine, and to make constant use of books reserved at the Library. Senior elective. One hour a week throughout the year.

LATIN

PROF. MULL. PROF. SCHAEFFER

The course in Latin is arranged to be in harmony with the general purpose of a four-year college course, and it is taught and studied with the view to secure the best results attainable within these limits. The disciplinary value of the study is held to be of prime account. Constant stress is laid upon the requirements of close, careful and painstaking study in the preparation of the lessons assigned. Upon this presumption the class-room instruction proceeds, with steady reference to the needs and benefits of the largest number. The quality of the work done is rated above the quantity of ground covered. The aim is to afford every student the amplest opportunity to acquire a knowledge and free use of the means and methods of translation and interpretation; to form correct habits of study, and thus to furnish him with the equipment that is believed to be essential in any serious effort to gain conscious mastery of the subject in

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whole or in part. The literary values are not underestimated, but they are not made the subjects of technical instruction or the objects of critical study. They are used rather as stimulants for the quickening of the student's own power of perception and appreciation of literary values in general, and as silent working factors in the process of mental culture. Here the aim is to nourish development from within by the cultivation of the literary feeling based on correct standards, thus placing within reach of the student an acquisition that is susceptible of indefinite enlargement.

(*a*) LIVY;—Horace Odes, Freshman A.B. and Ph.B. requirement. Three hours a week throughout the year.

(*b*) Exercises in prose composition. Freshman A.B. requirement. One hour a week throughout the year.

(*c*) HORACE, Odes finished; Satires and Epistles; Juvenal's Satires. Sophomore A.B. and Ph.B. requirement. Three hours a week throughout the year.

(*d*) CICERO DE ORATORE (or De Officiis); Pliny's or Cicero's Select Letters. Junior elective. Two hours a week throughout the year.

(*e*) THE HISTORIES OF TACITUS.—A critical study of the text, with collateral study of the Roman History writers. Senior elective. Two hours a week; first semester.

(*f*) A STUDY OF THE ROMAN DRAMA AND DRAMATIC LITERATURE, with lectures, and readings in Plautus and Terence; or selections from the Latin Fathers and Latin Hymns. Senior elective. Two hours a week; second semester.

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(*g*) LATIN PROSE WRITING.—Junior and Senior elective. One hour a week throughout the year. Given in alternate years.

(*h*) VERGIL AND CICERO.—Junior and Senior elective. Vergil's Aeneid, Books VII–XII, first semester; Cicero's Letters, second semester. Work designed especially for prospective teachers. Lectures, assigned readings and papers prepared by members of the class. Two hours a week throughout the year. Given in alternate years.

MODERN LANGUAGES

PROFESSOR DIPPELL

The first two years of modern language study are devoted to the acquirement of a working knowledge of the language itself, while the higher courses emphasize the study of the literature. Drill in pronunciation and the careful study of grammar begin the course, and the translation of easy texts is taken up as early as possible, thus laying the foundation for a working vocabulary. The work is progressively arranged throughout the course, grammar study leading up to syntax and advanced composition, while modern texts are followed by the works of the great writers of the eighteenth century, and instruction in special topics is given, ending in a general view of the literature.

The foreign language is used in the class-room as far as practicable, and an effort is made to train the student to express himself correctly in simple language, although it is realized that the ability to speak a modern language freely requires far more practice than can be had in a brief college course

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GERMAN

(*a*) COURSE FOR BEGINNERS.—Pronunciation, composition and dictation. Students are thoroughly drilled in the fundamentals of the language—declensions, conjugations and simple syntax. Some easy text is read near the close of the second semester. Freshman requirement for those who do not offer German for entrance. Two hours a week throughout the year.

(*b*) ADVANCED FRESHMAN GERMAN.—Grammar, composition and translation. For those Freshmen who have passed the entrance requirements in German. Two hours a week throughout the year.

(*c*) SOPHOMORE GERMAN.—Reading and translation of modern German texts. Specific drill in pronunciation, syntax and composition. Required study. Two hours a week throughout the year.

(*d*) ADVANCED SOPHOMORE GERMAN.—Advanced composition and grammar drill. Texts read in this course are more difficult in language and construction, corresponding to such as are generally read in the fourth year. Required study for Sophomore Ph.B. and B.S. Open only to students who have successfully completed course *b*. Two hours a week throughout the year.

(*e*) JUNIOR GERMAN.—Reading of a play of Schiller, special endeavor being made to get the German point of view in the drama read. A play of Lessing or one of Goethe's works is read. Advanced prose composition. Ph.B. and B.S. requirement; A.B. elective. Two hours a week throughout the year.

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(*f*) GOETHE'S FAUST.—Reading and translation of Faust; discussions on topics suggested by the play, structure of the drama. Lectures on the rise and development of the German theater. Senior elective. Two hours a week; first semester.

(*g*) LECTURES ON GERMAN LITERATURE.—Complementary course to *e*. Senior elective. Two hours a week; second semester.

(*h*) SCIENTIFIC GERMAN.—A course of reading in works covering a broad field of scientific and literary topics. Senior elective. One hour a week throughout the year.

FRENCH

(*a*) FIRST YEAR FRENCH.—Drill in the fundamentals of the language. Pronunciation, dictation and translation from English into French. Simple syntax and composition. Reading of some simple modern text. Freshman Ph.B. and B.S. requirement; Freshman and Junior A.B. elective. Two hours a week throughout the year.

(*b*) SECOND YEAR FRENCH.—Grammar, composition and advanced syntax. Reading of several French texts. Sophomore Ph.B. and B.S. requirement; Sophomore and Senior A.B. elective. Two hours a week throughout the year.

(*c*) FRENCH PROSE AND POETRY.—Selections from such authors as Corneille, Racine, Moliere, Victor Hugo, Balzac, etc., are read. Open only to students who have successfully completed Courses *a* and *b*.

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ENGLISH

PROFESSOR GROSE

In the course outlined below, the department of English has in view these objects: (1) the power to write clear and accurate English; (2) the love of good reading; (3) a general knowledge of the history of English literature; (4) a close acquaintance with a few great writers.

(*a*) COMPOSITION.—Theory and practice of writing English. Lectures, recitations and themes. The text-books are Newcomer's *Elements of Rhetoric* and Grose's *Specimens of English Composition*. Freshman requirement. Two hours a week throughout the year.

(*b*) HISTORY OF ENGLISH LITERATURE.—An outline course in the rise and development of English Literature. Lectures on authors and periods; recitations on assigned reading. The text-book is Newcomer and Andrews' *Twelve Centuries of English Poetry and Prose*. Sophomore requirement. Two hours a week throughout the year.

(*c*) SHAKESPEARE.—Reading of most of the plays; critical and historical study of the more important. Shakespeare in relation to the drama of his own day and of later days. For reference, each student is required to own a copy of the *Globe* edition of the plays. Junior A.B. and Ph.B. requirement. Two hours a week throughout the year.

(*d*) MODERN ENGLISH POETRY.—This course includes the leading poets of the Romantic and Victorian periods. The text-book is Page's *British*

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Poets of the Nineteenth Century. Senior A.B. and Ph.B. requirement. Two hours a week throughout the year.

(*e*) MODERN ENGLISH PROSE.—Careful study of Carlyle's *Sartor Resartus.* Rapid reading of several important novels and essays. Senior elective. Two hours a week; first semester.

(*f*) MILTON.—The course is a study in the understanding and appreciation of poetry, and of a great personality. The text used is the *Oxford* edition. Senior elective. Two hours a week; second semester.

ENGLISH BIBLE

PROF. STAHR. PROF. APPLE.

The study of the English Bible is based on the conviction that a knowledge of its historical facts, literary forms, modes of thought, and above all, of its ethical and religious teachings, is an essential element of all true culture. The work extends over two years, one hour a week and is required of all students unless excused for conscientious reasons.

(*a*) THE ACTS OF THE APOSTLES AND THE EPISTLES. Juniors.

(*b*) OLD TESTAMENT HISTORY. Seniors.

HISTORY

PROFESSOR KLEIN

The Department of History has a two-fold aim: (1) To give the student a comprehensive survey of the development of Western Europe, it offers in the

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Freshman and Sophomore years a general course in European History from the decline of the Roman Empire to the end of the nineteenth century; (2) to familiarize the student with the methods of modern historic scholarship as found in the use of sources and the weighing of precise problems of research and criticism, it offers in the Junior and Senior years more detailed courses on particular periods in European and American History. In all the courses offered, the subject comprises lectures, supplementary reading, the writing of essays and the study of selected historical documents.

(*a*) INTRODUCTORY COURSE IN MEDIÆVAL HISTORY.—This course is devoted to the study of the more important movements and epochs in European History since the fall of Rome, such as the Barbarian Invasion, the rise and development of the Mediæval Empire, the growth and importance of the Mediæval Church, Mohammedanism, the Crusades, Feudalism, and other characteristic phenomena of the period. Thatcher, A Short History of Mediæval Europe, and Ogg's Source Book of Mediæval History. Freshman A.B. and Ph.B. requirement. Two hours a week; first semester.

(*b*) GENERAL HISTORY OF EUROPE FROM THE END OF THE THIRTEENTH TO THE BEGINNING OF THE SIXTEENTH CENTURY.—The Renaissance; the rise of cities; the rise of the modern nations; preparation for the Reformation. Lodge, The Close of the Middle Ages. Freshman A.B. and Ph.B. requirement. Two hours a week; second semester.

(*c*) GENERAL HISTORY OF EUROPE FROM THE OPENING OF THE SIXTEENTH CENTURY TO THE

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FRENCH REVOLUTION.—The Reformation will be considered in its relation to all the larger problems of modern history. The course will also include a study of the Humanists; the Counter-Reformation; the Independence of the Dutch; the Thirty Year's War; The Ascendancy of France; The Rise of Prussia and Austria; the Balance of Power in Europe. Lectures, assigned readings and discussions.

Schwill's Political History of Modern Europe. Robinson's Readings in European History, Volume II. Sophomore A.B. requirement. Elective for others. Two hours a week; first semester.

(*d*) REVOLUTIONARY EUROPE.—The institutions of the old regime in France; the causes and courses of the French Revolution; the effects of the French Revolution upon other countries of Europe; Napoleon and the Napoleonic Wars; the overthrow of Napoleon and the Treaties of Paris. Lectures, assigned readings, discussions and the preparation of short monographs. Schwill's Political History of Modern Europe. Mathew's The French Revolution. Sophomore A.B. requirement. Elective for others. Two hours a week; second semester.

(*e*) AMERICAN HISTORY.—The foundation of the Union, 1750–1829; expansion of English Colonies; rivalry of French and English; the causes of the Revolution; the organization of the government under the constitution; the development of national self-consciousness; social, economic and political reorganization. Lectures, collateral reading, preparation of monographs, discussion of theses on the basis of secondary sources. Hart's Formation of the Union. Hart's American History Told by Con-

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temporaries. Junior elective. Two hours a week; first semester.

(*f*) AMERICAN HISTORY.—Division and Reunion from 1829–1914, with special reference to the Civil War, and Reconstruction; also later United States History, including the new problems of the last quarter of the century. Lectures, assigned reading, preparation of essays based on original research. Division and Reunion by the Hon. Woodrow Wilson, Ph.D. Select documents of United States History by W. MacDonald. Junior elective. Two hours a week; second semester.

(*g*) HISTORY OF MODERN PHILOSOPHY.—A course devoted to the history of the development of thought from Bruno to Spencer. Lectures, assigned readings and discussions. The course aims not only at a description of philosophical systems, but emphasizes required reading of selections from the works of the great philosophical masters themselves. Weber's History of Philosophy. Rand's Modern Classical Philosophers. Junior elective. One hour a week throughout the year.

(*h*) EUROPEAN HISTORY IN THE NINETEENTH CENTURY.—This course aims to present the most important developments in the history of European countries since 1815. The reaction in Europe after the overthrow of Napoleon; the reconstruction of Germany; Greek Independence; Revolutions of 1830 and 1848, etc. Lectures, discussions, assigned reading, and preparation of monographs. Hazen's Europe since 1815. Senior elective. Two hours a week; first semester.

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(*i*) EUROPEAN HISTORY SINCE 1848.—Napoleon III and the Crimean War; the Union of Italy; the Found ng of the German Empire; the Franco-German War; the British Empire in the Nineteenth Century; the Rise of the Balkan States; Industrial Revolution in Russia; the Eastern Question; the Expansion of Europe in Asia and Africa; features of modern progress and a practical study of comparative contemporary political problems. Lectures, collateral readings and the preparation of monographs on the basis of research. Hazen's Europe Since 1815. Senior elective. Two hours a week; second semester.

(*j*) PREHISTORIC ARCHÆOLOGY.—Lectures with collateral reading. The course embraces the study of the earliest human records and their interpretation; the evidences of man's antiquity, social life of primitive man; theories of language, primitive arts, industries and religions. Keary's Dawn of History. Senior elective. One hour a week; first semester.

(*k*) HISTORIC ARCHÆOLOGY.—This course embraces the history of the origin and development of the fine arts. Lectures are also devoted to the minor archæological sciences. Brown's The Fine Arts. Reinach's Apollo. Senior elective. One hour a week; second semester.

POLITICS

PROFESSOR HIESTER

(*a*) AMERICAN CIVIL GOVERNMENT.—A general survey of civil government in the United States, which presupposes an elementary knowledge of the

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Federal Constitution, and includes a study of the origin, development and practical workings of the national government, a description of the state governments and their relation to the national government, an examination of the various forms of local and municipal government, and a brief account of the history, policies and machinery of political parties. The course is designed particularly for the needs of those who do not expect to take any advanced work in Politics. Beard's American Government and Politics. Sophomore elective. Two hours a week throughout the year.

(*b*) GENERAL POLITICAL SCIENCE.—An analytical and historical examination of the modern state. The main topics considered are the nature and origin of the state, the forms of the state, the attributes of sovereignty, the theories of state functions, the scope and content of individual liberty, the forms of government, the structure of the governments of the most important modern countries, and the place of political parties in the mechanism of government. Garner's Introduction to Political Science. Sophomore elective. Two hours a week throughout the year.

(*c*) AMERICAN CONSTITUTIONAL LAW.—This course is designed to give a knowledge of the general principles of the constitutional law of the United States. The growth and development of the Federal Constitution through judicial interpretation is carefully observed, and the more important decisions of the Supreme Court are studied. McClain's Constitutional Law in the United States. Two hours a week throughout the year. Open to Juniors and

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Seniors who have had Course *b*. Given only in alternate years. Omitted in 1913–1914.

(*d*) INTERNATIONAL LAW.—A study of the nature, history, subjects and sources of international law, with particular reference to the history and character of American diplomacy, and the part played by the United States in the development of modern international law. Lawrence's Principles of International Law. Two hours a week throughout the year. Open to Juniors and Seniors who have had Course *b*. Given in alternate years. Omitted in 1914–1915.

ECONOMICS

PROFESSOR HIESTER

(*a*) GENERAL ECONOMICS.—An introductory course designed for the needs of the general student and embracing, in addition to a comprehensive study of the principles underlying the production, exchange, distribution and consumption of wealth, a rapid survey of the evolution of economic society, and a brief history of economic thought. Bullock's Introduction to the Study of Economics. Two hours a week throughout the year. Junior A.B. and Ph.B. requirement.

(*b*) MONEY AND BANKING.—A critical examination of the problems presented by modern banking and monetary systems, the nature and functions of money, primary and secondary standards of values, prices and credit, domestic and foreign exchange, bank, currency, the various systems of commercial banking, the theory and history of bi-metallism.

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White's Money and Banking. Two hours a week; first semester. Senior elective.

(*c*) PUBLIC FINANCE.—A systematic study of the financial problems of the modern state, the forms of public expenditure, the character and classification of public revenues, the various kinds of taxes, the justification and incidence of taxation, the nature of public credit, the forms of public indebtedness, and the principles of financial administration. Plehn's Introduction to Public Finance. Two hours a week; second semester. Senior elective.

SOCIOLOGY

PROFESSOR HIESTER

(*a*) GENERAL SOCIOLOGY.—An elementary course dealing with the structure and functions of contemporary society, the natural history of human society, the principles of social evolution, the conditions of social progress, and a brief survey of the history of sociological thought. Small and Vincent's Introduction to the Study of Society. Three hours a week; first semester. Senior elective.

(*b*) SOCIAL PATHOLOGY.—A course in Applied Sociology which has to do with the defective, dependent and delinquent classes. It considers the relation of the individual to society, the various causes of social abnormability, personal, social and industrial, the influence of heredity and environment, the conclusions which have been established with respect to the cure and prevention of social diseases. Smith's Social Pathology. Three hours a week; second semester. Senior elective.

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MATHEMATICS

PROF. KERSHNER. PROF. APPLE

(*a*) ALGEBRA, including progressions, permutations and combinations, binomial theorem, series, logarithms and theory of equations. Text: Well's University Algebra. Freshman A.B. requirement. Three hours a week; first semester.

(*b*) SOLID GEOMETRY.—Text: Wentworth's Plane and Solid Geometry. Freshman A.B. requirement; three hours a week; second semester. Freshman Ph.B. and B.S. requirement: three hours a week; first semester.

(*c*) DESCRIPTIVE GEOMETRY AND MECHANICAL DRAWING.—Freshman B.S. requirement; A.B. and Ph.B. elective. Two hours a week throughout the year.

(*d*) THEORY OF EQUATIONS, including determinants and complex numbers. Text: Barton. Freshman Ph.B. and B.S. requirement and A.B. elective. Three hours a week; second semester.

(*e*) TRIGONOMETRY, plane and spherical, including plane surveying. Texts: Granville's Plane and Spherical Trigonometry; Wentworth's Plane Surveying. Freshman B.S. and Ph.B. and Sophomore A.B. requirement, three hours a week throughout the year.

(*f*) ANALYTICAL GEOMETRY, including straight line, circle, parabola, ellipse and hyperbola, and loci of the second order. Text: Wentworth. Elective for Sophomore Ph.B. and B.S. and Junior A.B. who have completed Trigonometry. Three hours a week; first semester.

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(*g*) CALCULUS; differential, including the elements of differentiation and integration, Taylor's and Maclaurin's formulas, maxima and minima values of functions, tangents, normals, indeterminate expressions and curve tracing. Elective to Juniors and others who have had analytical geometry. Three hours a week; first semester.

(*h*) INTEGRAL CALCULUS continued, and differential equations with applications to problems in mechanics. Elective to those who have had elementary calculus. Three hours a week; second semester.

(*i*) ADVANCED ANALYTICAL GEOMETRY, including loci of second order, higher plane curves, and solid geometry. Elective for Sophomore Ph.B. and B.S. and Junior A.B. who have completed Course *f*. Two hours a week; second semester.

(*j*) COURSE IN MECHANICS with applications of the calculus suitable for students who expect to become engineers. Calculus required. Senior elective. Two hours a week throughout the year.

(*k*) COURSE IN DIFFERENTIAL EQUATIONS.—This course is suitable for students who wish to continue their course in pure mathematics or for engineering students who want to take advanced standing in engineering colleges. Courses *g* and *h* required. Elective. One hour a week; first semester.

PHYSICS

PROFESSOR KERSHNER

(*a*) PHYSICS with laboratory demonstrations. Mechanics, sound, heat and magnetism. Text: College Physics, by Read and Guthe. Plane Trig-

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onometry required. Sophomore B.S. and Ph.B. requirement. Required also of A. B. Juniors who do not take Chemistry. Three hours a week; first semester.

(*b*) PHYSICS with laboratory demonstrations, continued. Electricity, magnetism and light. Continuation of Course *a*. Three hours a week; second semester.

(*c*) PHYSICAL MEASUREMENTS.—Mechanics, Heat and Sound. Ames and Bliss. Junior B.S. requirement. Two hours a week; first semester. Elective for all who have taken or are taking Courses *a* and *b*.

(*d*) PHYSICAL MEASUREMENTS, continued, in heat, light, electricity and magnetism. Junior B.S. requirement. Elective for all who take or have completed *c*. Two hours a week; second semester.

(*e*) APPLIED ELECTRICITY.—This includes measurement of electromotive forces, resistances, capacities, magnetic properties of iron; and efficiency and characteristics of dynamos. Elective to Juniors or Seniors who have taken Mathematics (*f*) and Physics (*b*). Two hours a week throughout the year.

(*f*) THEORY OF ELECTRICITY.—Required for Course *e*. Junior and Senior elective. One hour a week throughout the year. This course is required in addition to *a* and *b* by those who want to enter university courses where four hours of General Physics is required.

(*g*) APPLIED ELECTRICITY.—Advanced course. This course is a continuation of Course *e* and takes up a series of laboratory measurements on alter-

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nating currents and photometry. Senior elective. Two hours a week throughout the year.

(*h*) THEORY OF ELECTRICITY.—Advanced course. Calculus required. This is a course of reading on alternating currents and is complementary to Course *g*. Senior elective. Two hours a week throughout the year.

ASTRONOMY

PROFESSOR APPLE

(*a*) PRACTICAL ASTRONOMY, with work in the Observatory on the problems of time, latitude, longitude and azimuth. Text: Doolittle. Also method of least squares. Elective for those taking Mathematics (*g*). Two hours a week; first semester.

(*b*) A continuation of Course *a* with advanced work in the Observatory. Two hours a week; second semester.

(*c*) GENERAL ASTRONOMY. Text: Young. Junior and Senior elective to those who have had plane and spherical trigonometry and elements of physics. Three hours a week; second semester.

BIOLOGY

PROFESSOR SCHIEDT

The study of biology is of prime importance in a modern curriculum of liberal culture. Its aim is: (1) To present from a scientific standpoint the main facts relating to form, function and relationship of the best types of plants and animals; (2) to bring the student face to face with the modern methods

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of biological investigation both in the laboratory and in nature; (3) to enable the student who takes the full course to properly grasp the trend of modern thought that has grown out of these investigations and has influenced all departments of life and learning, especially that of philosophy and pedagogy; (4) to pay particular attention to the preparation of young men for the higher requirements of university courses in Biology, Forestry and Medicine. To students who want to prepare for any branch of Economic Zoölogy the museum is open with its library and collections. The curator offers special instructions to any one desiring such.

(*a*) GENERAL BIOLOGY.—An introductory course for beginners, including the study of the mechanism and use of the microscope, of plant and animal protoplasm, of the cell and its functions and of a few more complex types of plants and animals together with lectures on the history of the Science. Text: Conn's General Biology. Freshman B.S. (Biological group), Sophomore B.S. (Chemistry group) and A.B. requirement. One hour recitation and four hours laboratory a week throughout the year. Two hours credit.

(*b*) INVERTEBRATE MORPHOLOGY.—Consists of introductory lectures, study of microscope, gross and microscopic dissection of about twenty types of invertebrates, and lectures and text-book studies on classification, habitat and phylogeny of the lower animals. Texts: Hegner's Zoology. Sophomore Ph.B. and B.S. (Biological group), requirement. One hour recitation and four hours laboratory a week; first semester and part of second. Two hours credit.

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(*c*) VERTEBRATE ZOOLOGY.—Consists of lectures on the comparative organography of the vertebrates, special study of primitive vertebrates and the dissection of dog-fish, frog, pigeon and cat. Texts: Comparative Anatomy of the Vertebrates, Kingsley. Reference books: Parker and Haswell larger edition, Cambridge Natural History, Wiedersheim, etc. Junior B.S., Ph.B. (Biological group) requirement; elective to others. One hour recitation and four hours laboratory a week throughout the year. Two hours credit.

(*d*) VERTEBRATE HISTOLOGY.—Texts: Piersol, Dahlgren and Kepner, Lewis and Stoehr; with lectures. Junior B.S. (Biological group) requirement; elective to others. Four hours a week, lecture and laboratory, throughout the year. Two hours credit.

(*e*) ANIMAL PHYSIOLOGY.—An introductory course consisting of experiments in the physiology of muscle and nerve, of circulation, of respiration and of optics, followed by some essential experiments on the income of energy or physiological chemistry. Texts: Porter's Introduction and the American Text-book on Physiology with other references. Senior elective; required for B.S., Ph.B. (Biological group). Four hours a week throughout the year. Two hours credit.

(*f*) VERTEBRATE HISTOLOGY.—A continuation of Course *d*. Senior elective. Required for B.S. (Biological group). Four hours a week; first semester. Two hours credit.

(*g*) EMBRYOLOGY OF THE CHICK.—A course of lectures accompanied by laboratory demonstrations and practical individual work. Text: Kellicott's General Embryology, Lillies' Embryology of the

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Chick. Senior elective. Required for B.S. (Biological group). Four hours a week lecture and laboratory; second semester. Two hours credit.

All the foregoing courses include extensive drawings and the presentation of note books. The laboratory periods are generally unlimited.

(*h*) GENERAL PLANT MORPHOLOGY.—Consists of introductory lectures and of laboratory and field work on the most common types of Thallophytes, Bryophytes, Pteridophytes and Spermatophytes. Text: Coulter's Morphology. Gray's New Manual. Sophomore Ph.B. and B.S. (Biological group) requirement. One hour recitation and four hours laboratory with field work; latter half of second semester. Two hours credit.

(*i*) SYSTEMATIC AND STRUCTURAL BOTANY.—Collection and study of 250 plants required. Texts: Sargent's Plants and Their Uses; Coulter, Barnes and Cowles Text-book of Botany; Vol. 1., Brown and Britton, Gray's New Manual, DuBarry, Stevens' Plant Anatomy and Chamberlain's Methods of Plant Histology. Junior B.S. (Biological group) requirement; elective to others. Four hours a week throughout the year, with laboratory and field work. Two hours credit.

(*j*) PHYSIOLOGY AND ECOLOGY OF PLANTS.—Designed for the needs of forestry students. Text: Coulter, Barnes and Cowles Text-book of Botany, Vol. II., Clement's Ecology and Physiology, also MacDougal and Ganong. Senior elective. Required in B. S. (Biological group). Two hours of lecture and recitation a week throughout the year. Weekly experiments in the environment and physiological laboratory; time not limited. Two hours credit.

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(*k*) BACTERIOLOGY.—Comprises manipulation of apparatus and study of essential methods of sterilization, incubation, staining, etc., classification. Texts: Jordan's General Bacteriology, Heineman's Laboratory Directions. Senior elective. B.S. requirement. One hour of lectures and recitations and eight to ten hours laboratory a week throughout the year. One hour credit.

GEOLOGY

PROFESSOR SCHIEDT

Geology is required of all science students as a fitting conclusion of both the chemical and the biological courses. Elective for others.

(*a*) DYNAMICAL AND STRUCTURAL GEOLOGY.—Recitations from text combined with the study of the Shaler-Davis models and photographs and the microscopic examination of rock types. Text: Norton's Elements of Geology, Chamberlain and Salisbury's College Geology. Senior elective. Required in B. S. course. Two hours a week; first semester. Field work and one hour laboratory.

(*b*) HISTORICAL GEOLOGY.—A continuation of Course *a*. Senior elective. Required in B.S. course. Two hours a week; second semester. Field work and one hour laboratory.

CHEMISTRY

PROFESSOR BECK

The department of Chemistry offers a course leading to the degree of B.S. in chemistry. To applicants for the degree of Ph.B. and B.S. in Biol-

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ogy all or part of the branches of the longer course in chemistry are available, with the laboratory requirements of the latter somewhat abridged. The work is planned to cultivate scientific spirit and habit, to instill modern methods of pure and applied chemistry, and to teach correct laboratory manipulation. With these purposes in view, the student is instructed in the theory of general analytical and organic chemistry with related subjects, and is required to spend a large part of his time in the laboratory. The graduate is in a position to take up any branch of chemistry intelligently and specialize on it, or the course fits him admirably for further work in medicine or other allied sciences.

To the A. B. student one year of general chemistry is given with an optional year of qualitative analysis. The object of this shorter course is to point out the chemical relations of common life and the world about us, and add practical information and an element of scientific training to a broad college course.

(*a*) GENERAL INORGANIC CHEMISTRY.—Lectures (with experiments) and recitations. The non-metals, metals and their compounds. Laboratory work. Text-book: Inorganic chemistry for colleges, Newell. Required of Freshman B.S. (Chemistry group), Junior A.B. and Sophomore Ph.B. and B.S. (Biological group). Three hours a week throughout the year.

(*b*) QUALITATIVE ANALYSIS.—Qualitative separations of the metals and analysis of natural and artificial products. Chemical Philosophy and Stoichiometry (to accompany Qualitative Course).

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Laboratory work, lectures and recitations. Textbooks: Noye's, Prescott and Johnson's works on the subject; also Chemical Calculations. Senior elective for A.B. students. Required of Sophomore B.S. (Chemistry group) and Junior B.S. (Biological group) and for those Ph.B. students who take their major work in the sciences in chemistry; elective for all others. Five hours a week throughout the year for the required course and three hours for the elective.

(*c*) QUANTITATIVE ANALYSIS.—Volumetric and gravimetric analysis of chemical compounds, ores, fertilizers, etc. Laboratory and lectures. Textbooks: Talbot and Fresenius, supplemented with the methods of chemists who are specialists on particular determinations. Junior B.S. (Chemistry group) requirement; elective for all others. Eight hours a week throughout the year for the required course and four hours for the elective.

(*d*) ADVANCED QUANTITATIVE ANALYSIS.—A continuation of Course *c* with special determinations. Senior B.S. (Chemistry group) requirement, elective for others. Four hours a week throughout the year.

(*e*) BLOWPIPE ANALYSIS.—An elementary course in qualitative analysis in the dry way. The chief aim of this course is to assist in the identification of minerals. Lectures and laboratory. Reference book: Blowpipe Analysis by Brush. Senior B.S. (Chemistry group) requirement; elective for others. One hour a week; first semester.

(*f*) MINERALOGY.—Elementary course in physical, chemical and descriptive mineralogy. Labora-

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tory: Practical exercises in determination of the more common mineral species. Text-book: Dana's Mineralogy. Senior B.S. (Chemistry group) requirement; elective for others. One hour a week; first semester.

(*g*) ASSAYING.—Furnace assay of gold, silver, lead ores, etc. Laboratory. Text-book: Rickett and Miller's Notes on Assaying. Senior B.S. (Chemistry group) requirement; elective for others. Two hours a week; first semester.

(*h*) ORGANIC CHEMISTRY.—Lectures, recitations on the chemistry of the typical compounds of carbon. Laboratory work. Determination of specific gravities, melting and boiling points, vapor densities. General organic analysis. Preparation of organic compounds, examination of foodstuffs. Text-book: Remsen's Introduction to the Study of the Carbon Compounds. Reference: Richter's Organic Chemistry (translated by Smith). Senior B.S. (Chemistry group) requirement; elective for others. Three hours a week; second semester.

Special courses, for men intending to enter upon any particular line of chemical work, can be planned by consultation with the professor in charge.

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SYNOPSIS OF A. B. COURSE

First Semester

Freshmen.	Hrs.	Sophmores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Greek *c* or *a*	4	Greek *d* or *b*	3	Psychology	3	Ethics	2	Economics *b*	2
Latin *a*	3	Latin *c*	3	Greek or Latin	2	English *d*	2	Sociology *a*	3
" *b*	1	German *c* or *d*	2	German *d* or French *a*	2	Bible *b*	1	Mathematics *j*	2
German *a* or *b*	2	English *b*	2	English *c*	2	*Elective.*		" *k*	1
English *a*	2	History *c*	2	Bible *a*	1	Pedagogy	2	Physics *e*	2
History *a*	2	Mathematics *e*	3	Economics *o*	2	Greek *f*	2	" *f*	1
Mathematics *a*	3	Biology *a*	2	Physics *a* or Chemistry *a*	3	" *g*	2	" *g*	2
						" *h*	1	" *h*	2
Elective.		*Elective.*				Latin *e*	2	Astronomy *a*	2
French *a*	2	French *b*	2			" *g* or *h*	1	Geology *a*	2
Mathematics *c*	2	Politics *a*	2	*Elective.*		German *f*	2	Chemistry *b*	3
		" *b*	2	Greek *d*	3	" *h*	1		
				" *e*	2	French *b*	2		
				Latin *d*	2	English *e*	2		
				German *e*	2	History *h*	2		
				French *a*	2	" *j*	1		
				History *e*	2	Politics *c* or *d*	2		
				" *g*	1				
				Politics *c* or *d*	2				
				Mathematics *f*	3				
				" *g*	3				

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SYNOPSIS OF A. B. COURSE

Second Semester

Freshmen.	Hrs.	Sophmores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Greek *c* or *a*	4	Greek *d* or *b*	3	Aesthetics	2	Ethics	2	Economics *c*	2
Latin *a*	3	Latin *c*	3	Greek or Latin	2	English *d*	2	Sociology *b*	3
" *b*	1	German *c* or *d*	2	German *e* or French *a*	2	Bible *b*	1	Mathematics *j*	2
German *a* or *b*	2	English *b*	2	English *c*	2	*Elective.*		Physics *e*	2
English *a*	2	History *d*	2	Bible *a*	1	Pedagogy	2	" *f*	1
History *b*	2	Biology *a*	2	Economics *a*	2	Logic	2	" *g*	2
Mathematics *b*	3	Mathematics *e*	3	Physics *b* or Chemistry *a*	3	Greek *f*	2	" *k*	2
Elective.		*Elective.*				" *g*	2	Astronomy *b*	2
French *a*	2	French *b*	2	*Elective.*		" *k*	1	" *c*	3
Mathematics *c*	2	Politics *a*	2	Logic	2	Latin *f*	2	Geology *b*	2
" *d*	3	" *b*	2	Greek *d*	3	" *g* or *k*	1	Chemistry *b*	3
		Mathematics *f*	3	" *e*	2	German *g*	2		
		Phil. of Hist.	1	Latin *d*	2	" *k*	2		
				German *e*	2	French *b*	1		
				French *a*	2	English *f*	2		
				History *f*	2	History *i*	2		
				" *g*	1	" *k*	1		
				Politics *c* or *d*	2	Politics *c* or *d*	2		
				Mathematics *h*	3				
				" *i*	2				

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SYNOPSIS OF PH. B. COURSE

First Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Latin *a*	3	Latin *c*	3	Psychology	3	Ethics	2	Physics *e*	2
German *a* or *b*	2	German *c* or *d*	2	German *e*	2	English *d*	2	" *f*	1
French *a*	2	French *b*	2	English *c*	2	Bible *b*	1	" *g*	2
English *a*	2	English *b*	2	Bible *a*	1			" *h*	2
History *a*	2	Physics *a*	3	Economics *a*	2	*Elective.*		Astronomy *a*	2
Mathematics *b*	3	Biology *b*	2			Pedagogy	2	Biology *e*	2
" *e*	3	Chemistry *a*	3	*Elective.*		Latin *e*	2	" *f*	2
				Latin *d*	2	" *g* or	1	" *i*	2
Elective.		*Elective.*		History *e*	2	" *h*	2	" *k*	1
Mathematics *c*	2	History *c*	2	" *g*	1	German *f*	2	Geology *a*	2
		Politics *a*	2	Politics *c* or *d*	2	" *h*	1	Chemistry *c*	4
		" *b*	2	Mathematics *g*	3	English *e*	2	" *d*	4
		Mathematics *f*	3	Physics *c*	2	History *h*	2	" *e*	1
				" *e*	2	" *j*	1	" *f*	1
				" *f*	1	Politics *c* or *d*	2	" *g*	2
				Biology *c*	2	Economics *b*	2		
				" *d*	2	Sociology *a*	3		
				" *i*	2	Mathematics *j*	2		
				Chemistry *b*	3	" *k*	1		

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SYNOPSIS OF PH. B. COURSE

Second Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*		*Elective.*	
Latin *a*	3	Latin *c*	3	Aesthetics	2	Ethics	2	Mathematics *j*	2
German *a* or *b*	2	German *c* or *d*	2	German *e*	2	English *d*	2	Physics *e*	2
French *a*	2	French *b*	2	English *c*	2	Bible *b*	1	" *f*	1
English *a*	2	English *b*	2	Bible *a*	1			" *g*	2
History *b*	2	Physics *b*	3	Economics *a*	2	*Elective.*		" *h*	2
Mathematics *d*	3	Biology *h*	2			Pedagogy	2	Astronomy *b*	2
" *e*	3	Chemistry *a*	3	*Elective.*		Logic	2	" *c*	2
				Logic	2	Latin *f*	2	Biology *e*	2
Elective.				Latin *d*	2	" *g* or	1	" *g*	2
Mathematics *c*	2	*Elective.*		History *f*	2	" *h*	2	" *j*	2
		History *d*	2	" *g*	1	German *g*	2	" *k*	2
		Politics *a*	2	Politics *c* or *d*	2	" *h*	1	Geology *b*	1
		" *b*	2	Mathematics *h*	3	English *f*	2	Chemistry *c*	2
		Mathematics *i*	2	Physics *d*	2	History *i*	2	" *d*	4
		Phil. of Hist.	1	" *e*	2	" *k*	1	" *h*	3
				" *f*	1	Politics *c* or *d*	2		
				Biology *c*	2	Economics *c*	2		
				" *d*	2	Sociology *b*	3		
				" *i*	2				
				Chemistry *b*	3				

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SYNOPSIS OF B. S. COURSE—CHEMISTRY GROUP

First Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*	
German *b*	2	German *d*	2	German or French	2	Chemistry *d*	4
French *a*	2	French *b*	2	Chemistry *c*	8	" *e*	1
English *a*	2	English *b*	2	Physics *c*	2	" *f*	1
Chemistry *a*	3	Chemistry *b*	5	Psychology	3	" *g*	2
Mathematics *b*	3	Biology *a*	2	Bible *a*	1	Bacteriology or Adv. Phys. Meas.	2
" *c*	2	Physics *a*	3			Geology *a*	2
" *e*	3			*Elective.*		Ethics	2
		Elective.		History *e*	2	Bible *b*	1
Elective.		Politics *a*	2	" *g*	1		
Latin *a*	3	" *b*	2	Politics *c* or *d*	2	*Elective*	
History *a*	2	Latin *c*	3	Economics *a*	2	Pedagogy	2
		History *c*	2	Physics *f*	1	History *h*	2
		Mathematics *f*	3			" *j*	1
						Politics *c* or *d*	2
						Economics *b*	2
						Sociology *a*	3
						German *f*	2
						" *h*	1

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SYNOPSIS OF B. S. COURSE—CHEMISTRY GROUP

Second Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*			
German *b*	2	German *d*	2	German or French	2	Chemistry *d*	4
French *a*	2	French *b*	2			" *h*	3
English *a*	2	English *b*	2	Chemistry *c*	3	Bacteriology or Adv. Phys. Meas.	2
Chemistry *a*	3	Chemistry *b*	5	Physics *d*	2	Geology *b*	2
Mathematics *c*	2	Biology *a*	2	Aesthetics	2	Ethics	2
" *d*	3	Physics *b*	3	Bible *a*	1	Bible *b*	1
" *e*	3						
		Electives.		*Electives.*		*Electives.*	
Electives.		Politics *a*	2	History *f*	2	Pedagogy	2
Latin *a*	3	" *b*	2	" *g*	1	Logic	2
History *b*	2	Phil. of Hist.	1	Politics *c* or *d*	2	History *i*	2
		Latin *c*	3	Economics *a*	2	" *k*	1
		History *d*	2	Logic	2	Politics *c* or *d*	2
		Mathematics *i*	2	Physics *f*	1	Economics *c*	2
						Sociology *b*	2
						German *g*	2
						" *k*	1

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SYNOPSIS OF B. S. COURSE—BIOLOGICAL GROUP

First Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*	
German *b*	2	German *d*	2	German or }	2	Biology *e*	2
French *a*	2	French *b*	2	French }		" *f*	2
English *a*	2	English *b*	2	Biology *c* or *i*	2	" *j*	2
Biology *a*	2	Biology *b*	2	" *d*	2	" *k*	1
Mathematics *b*	3	Chemistry *a*	3	Chemistry *b*	3	Geology *a*	2
" *c*	2	Physics *a*	3	Psychology	3	Ethics	2
" *e*	3			Physics *c*	2	Bible *b*	1
				Bible *a*	1		
Elective.		*Elective.*				*Elective.*	
Latin *a*	3	Politics *a*	2	*Elective.*		Pedagogy	2
History *a*	2	" *b*	2	History *e*	2	History *h*	2
		Latin *c*	3	" *g*	1	" *j*	1
		History *c*	2	Politics *c* or *d*	2	Politics *c* or *d*	2
		Mathematics *f*	3	Economics *a*	2	Economics *b*	2
				Physics *f*	1	Sociology *a*	3
						German *f*	2
						" *h*	1

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SYNOPSIS OF B. S. COURSE—BIOLOGICAL GROUP

Second Semester

Freshmen.	Hrs.	Sophomores.	Hrs.	Juniors.	Hrs.	Seniors.	Hrs.
Required.		*Required.*		*Required.*		*Required.*	
German *b*	2	German *d*	2	German or		Biology *e*	2
French *a*	2	French *b*	2	French *f*	2	" *g*	2
English *a*	2	English *b*	2	Biology *c* or *i*	2	" *j*	2
Biology *a*	2	Biology *h*	2	" *d*	2	" *k*	1
Mathematics *c*	2	Chemistry *a*	3	Chemistry *b*	3	Geology *b*	1
" *d*	3	Physics *b*	3	Physics *d*	2	Ethics	2
" *e*	3			Aesthetics	2	Bible *b*	1
		Elective.		Bible *a*	1		
Elective.		Politics *a*	2			*Elective.*	
Latin *a*	3	" *b*	2	*Elective.*		Pedagogy	2
History *a*	2	Phil. of Hist.	1	History *f*	2	Logic	2
		Latin *c*	3	" *g*	1	History *i*	2
		History *d*	2	Politics *c* or *d*	2	" *k*	1
		Mathematics *i*	2	Economics *a*	2	Politics *c* or *d*	2
				Logic	2	Economics *c*	2
				Physics *f*	1	Sociology *b*	3
						German *g*	2
						" *h*	1

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DEGREES CONFERRED IN 1913

Degrees in Course

Bachelor of Arts

Charles M. Ackerman
Ross Edgar Benchoff
Louis Birinyi
Moses H. Brackbill
Owen Peterson Bricker, Jr.
Raymond Michael Bright
Harry Jacob Donat
John Andrew Frantz
Howard Emerson Gayley
Austin Leonard Grove
Ralph Ellis Hartman
Elmer Rhodes Hoke
Ralph Penrose Holben
J. Egbert Imler
Claude Talmage King
Estes Bilger Landis
Paul Nissley Landis
Simon S. Lehman
Thomas Johnston Marshall
Edward Louis Nolting
Charles E. Resser
William Martin Roberts
Edwin Blaine Romig
Homer Bauman Saul
Louis Malone Smith
Paul Jay Sykes
Paul Conner Wagner
Floyd D. Weaver
Joseph Buch Wissler

Bachelor of Philosophy

Howard Heistand M. Bowman
George Elder Brinton
Jacob Clark Henneberger
Tobias Leonard Jaeger
Raymond Bitzer Leinbach
Louis Jacob Livingood
Robert Barr Maclay
Ralph Henderson Maclay
George Williard Metger
Ralph Lewis Reber
James Stuart Seitz
Mark Emerson Stine
Chester Burton Wray

Master of Arts

Byrt William Fisher
Edwin Allen Ziegler

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Master of Philosophy

Robert Burns Taylor
William Edwin Weisgerber
Herbert Ralph Werner

HONORARY DEGREES

Doctor of Letters

Cornelius Woelfkin, New York City, N. Y.
C. Ernest Wagner, Lancaster, Pa.
John Straub, Eugene, Oregon.

Doctor of Divinity

Zwingle Albert Yearick, Shenandoah, Pa.

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ACADEMY.

INSTRUCTORS

THADDEUS G. HELM, A.M., Principal,
Greek

EDWIN M. HARTMAN, A.M., Principal,
German

MARTIN W. WITMER, A.B.,
English

JACOB B. LANDIS, A.B.,
English

EDWARD H. HEFFNER, A.B.,
Latin

PAUL J. SYKES, A.B.,
Latin

JOSEPH A. ROTHERMEL, A.M.,
Mathematics and Science

WILLIAM A. SOHL, A.B.,
Mathematics

HOMER F. REBERT, A.B.,
History

PAUL N. LANDIS, A.B.,
English and Latin

GEORGE N. HARTMAN, A.B.,
Physical Director

MARK THATCHER,
Mathematics

CHARLES P. STAHR, M.D.,
Medical Examiner and School Physician

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THE ACADEMY

History

Franklin and Marshall Academy was originally a preparatory department connected with Franklin College. After the union of Marshall College with Franklin College, this department was continued in immediate connection with Franklin and Marshall College, and in 1872, was named Franklin and Marshall Academy, when a new building was erected for its use and a separate faculty and management were appointed, so as "to make more ample provision for its efficiency and to enlarge its usefulness." An additional building was recently erected at a cost of $100,000.

Aim

The aim of the Academy is well expressed in the words used nearly forty years ago in the resolution of the trustees changing the preparatory department to Franklin and Marshall Academy. It is to be "in the best and highest sense, a training school for boys who desire to go to college, and also furnish a complete academical course for those who do not purpose taking a full collegiate course of study."

While seeking to develop right habits of study and accurate scholarship, the school endeavors also to develop and mold the sound Christian character, which is more important than scholastic efficiency.

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BUILDINGS

The equipment of the Academy includes two large buildings, known as East Hall and the Main Building.

East Hall is a three-story brick building in excellent repair equipped with electric light, steam heat, hot and cold water shower baths and all modern conveniences.

The Main Building is large, beautiful, well-planned, well-finished in hard wood, modern in every detail and substantially built of dark red brick, erected at a cost of about $100,000. It is 215 feet long, extending north and south, has two wings, 40x75 feet, and a chapel, seating about 350 boys, built west of the central building. In the center of the building is a large, square hall, with a large fire place, used as a general living room and game room and affords a useful and delightful center for the school life. About one-half of the students can be accommodated in single rooms, and the others in double rooms with single beds.

PHYSICAL TRAINING

The school aims to encourage such physical exercise in the gymnasium and on the athletic field as will conduce to the proper development of the student and to the physical condition most favorable to good school work. The Academy boys have their own foot-ball, base-ball, basket-ball, and track teams, which are under the direction of their own competent coach and have their own athletic grounds. They have the privilege of using

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the college athletic field nearby for playing match games.

The Academy gymnasium is in the basement of the new building, equipped with a metal locker for every boy, toilet and bath rooms with hot and cold water shower baths.

LIBRARIES AND READING ROOM

The reading room of the Academy, with about forty of the best papers and magazines, is open to students daily. Academy students also have access, without charge, to the reading room of the college, which receives over one hundred of the best papers and magazines of this country, together with a number of the leading foreign reviews, the college library and the libraries of the literary societies, within five minutes' walk of the school, aggregating about 50,000 volumes. In these respects, the school affords exceptional advantages for college preparatory students.

LITERARY SOCIETIES

Every boarding student is required to be a member of either the Franklin Literary Society or the Marshall Literary Society. The meetings are conducted by the students, so as to make them acquainted with the rules which hold in deliberative assemblies, but the exercises are under the direction of certain members of the faculty, who are always in attendance, so as to insure careful work and definite results. The work of these societies is made a prominent feature of the school.

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RELIGIOUS MEETINGS

All students, unless excused at the written request of parents, attend prayers in the Academy Chapel every morning.

All students except those of other than Protestant denominations, are required to attend Sunday morning worship in the College Chapel with the college congregation.

A Young Men's Christian Association is maintained by the student body. About eighty per cent. of the boarding students were enrolled last year in voluntary Bible Classes.

ACADEMY AND COLLEGE

The proximity of the Academy to a classical college secures to the students a literary atmosphere and the benefits of numerous literary exercises, debates, lectures, etc., which only such a college community can afford. The Academy is sufficiently separated from the College to avoid the intimate association and intercourse of college and academy students, which is often found objectionable at institutions where these two classes are constantly thrown together.

GRADUATION

A student of the school who has satisfactorily completed the work of any regular course, or such equivalent variation as his college may require, no less than 14 units, is eligible for graduation with the award of the school's diploma. A student who has not completed a full course may receive a certificate of credit for such work as he has satisfactorily passed.

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SPECIAL CLASSES

Special classes are organized for young men who teach during the winter and come to the Academy for the spring term.

SUMMER TERM

For teachers and any others desiring work in their line of college preparation a summer term of six weeks is offered, beginning June 17th. The tuition for the term is fifteen dollars.

A separate catalogue of the Academy, giving more detailed information, will be sent on application.

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REGISTER OF COLLEGE STUDENTS

Graduate Students

Howard Heistand M. Bowman, Ph.B. (1913),	Lancaster, Pa.
George Elder Brinton, Ph.B. (1913),	Whitesville, N. Y
Nevin Howard Carl, A.B. (1908),	Norfolk, Va.
Leon De Hoff, A.B. (1905),	New Orleans, La.
Abraham Lincoln Gehman, A.B. (1909),	Belleville, Pa.
Ralph Ellis Hartman, A.B. (1913),	Littlestown, Pa.
Elmer Rhodes Hoke, A.B. (1913),	Lancaster, Pa.
Ara Willis Kauffman, A.B. (1904),	West Willow, Pa.
Henry Harold Kershner, Ph.B. (1908),	Reading, Pa.
William Nies Kline, A.B. (1910),	Reading, Pa.
John Nevin Land, A.B. (1907),	Hamburg, Pa.
Paul Nissley Landis, A.B. (1913),	Lancaster, Pa.
Joseph Iddings Lauffer, A.B. (1912),	Irwin, Pa.
Leonard Lewellyn Leh, A.B. (1911),	Coplay, Pa.
Angus LeRoy Lightner, A.B. (1904),	Lancaster, Pa.
Cyrus Cleveland Meyer, A.B. (1908),	Washington, Pa.
Joseph Matthew Newgard, A.B. (1908),	Forreston, Ill.
Adam Frederick Rentz, A.B. (1912),	Wyomissing, Pa.
William Abraham Schneder, A.B. (1908),	Philadelphia, Pa.
Isaac Shirk Simons, A.B. (1909),	Philadelphia, Pa.
Charles Edwin Sohl, A.B. (1912),	Lancaster, Pa.
Paul Jay Sykes, A.B. (1913),	Lancaster, Pa.
Floyd Dennis Weaver, A.B. (1913),	Ephrata, Pa.

Students whose names are marked thus * have not been regular in their respective classes since June, 1913.

Senior Class

A.B. Course

Mahlon Frank Bolton, 524 West James Street.	Philadelphia, Pa.
Henry Newpher Bowman, 42 North West End Avenue.	Lancaster, Pa.

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Ralph Kline Bowman, 509 West James Street.	Front Royal, Va.
Claude Octavius Dierolf, 639 Chester Avenue.	Lancaster, Pa.
Henry Arthur Fox, 536 West James Street.	Danboro, Pa.
Frank Preston Fravel, 509 West James Street.	Tom's Brook, Va.
Percy Hoffer Gabel, 541 North Lime Street.	Lancaster, Pa.
Edward Townsend Hager, Columbia Avenue.	Lancaster, Pa.
William Oscar Heckman, 536 West James Street.	Tusseyville, Pa.
Amos Henry Hersh, 561 South Lime Street.	Lancaster, Pa.
Jacob Carpenter Hess, 359 College Avenue.	Lititz, Pa., R. D. 5.
Foster Calvin Hillegass, 415 West James Street.	Pennsburg, Pa.
Herbert King Kendig, 534 West James Street.	York, Pa.
Paul Irving Kuntz, 611 West Lemon Street.	York, Pa.
Reuben Edwin Kutz, 136 College Avenue.	Summit Hill, Pa.
Anson E. Laufer, 509 West James Street.	Brodheadsville, Pa.
Laban Wingert Leiter, 614 West Walnut Street.	Smithsburg, Md.
Samuel Edwin Lobach, 249 College Avenue.	Lancaster, Pa.
George Albert Moore, 216 Reservoir Street.	Lancaster, Pa.
William Edward Muth, 622 West Lemon Street.	Northampton, Pa.
Willis Carl Nugent, 359 College Avenue.	Altoona, Pa.
Willard Merritt Porterfield, Jr., 433 Nevin Street.	Lancaster, Pa.
Harry Lyman Raub, Jr., Marietta Avenue.	Lancaster, Pa.
Irvin Albert Raubenhold, 509 West James Street.	Northampton, Pa.

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Paul Herbert Reigner, 415 West James Street.	Reading, Pa.
Victor Abraham Ruth, 359 College Avenue.	Athol, Pa.
Howard Lester Sassaman, 437 West James Street.	Hummelstown, Pa.
Alfred Nevin Sayres, 427 South Queen Street.	Lancaster, Pa.
Herbert Alfred Schaffner, 437 West James Street.	Hummelstown, Pa.
Harvey Arthur Smith, 509 West James Street.	Brodheadsville, Pa.
Caulder Charles Stewart, 436 Lancaster Avenue.	Lebanon, Pa.
Lewis Hoch Wagenhorst, 426 West James Street.	Kutztown, Pa.
Bertram Stuart Walker, 534 West James Street.	Berlin, Pa.
Benjamin Franklin Waltz, 614 West Walnut Street.	Lancaster, Pa.
David Wenger Weber, R. D. 4, Ephrata, Pa.	Ephrata, Pa., R. D. 4.
John Wade Wimer, 437 West James Street.	Quarryville, Pa.
Henry Higbee Worthington, 214 Mulberry Street.	Lancaster, Pa.

PH.B. COURSE

Paul Hamilton Bletz, Jr., 415 West James Street.	Mountville, Pa.
Herman Daniel Deihl,* 562 West Lemon Street.	Lancaster, Pa.
James Herbert Egan, 139 N. Shippen Street.	Lancaster, Pa.
William Edgar Griffith, 437 West James Street.	Imler, Pa.
Oliver Reiff Hartzell, 536 West James Street.	South Perkasie, Pa.
John LeRue Hess, 136 College Avenue.	Duncannon, Pa.
Charles Wade Jones,* 536 West James Street.	Oshkosh, Wis.

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William Michael Loy, Trexler, Pa
359 College Avenue.
Donald Mitchell Mylin, Lancaster, Pa.
807 North Duke Street.
Carl Nathaniel Netscher, Lancaster, Pa.
46 North Prince Street.
Robert Wendell Owens, Tyrone, Pa.
560 West James Street.
Solomon Gilmore Pontius, Butler, Pa.
558 West James Street.
Harold Kline Robison, Harrisburg, Pa.
558 West James Street.
John Calvin Saylor, Johnstown, Pa.
415 West James Street.
John Brower Snyder,* Reading, Pa.
359 College Avenue.
Michael Garfield Stump, Pine Grove, Pa.
359 College Avenue.
Mark Thatcher, Richland Center, Pa.
Franklin and Marshall Academy.
Ralph Stanley Weiler, Terre Hill, Pa.
Terre Hill, Pa.

B.S. COURSE

Robert McCulley Halbach, Lancaster, Pa.
804 Manor Street.
Edmund Keffer Kline, Lancaster, Pa.
302 North Lime Street.
Claudus Lester Rohrbaugh, Glen Rock, Pa.
536 West James Street.
John Harold Stein, Kutztown, Pa.
234 North Duke Street.

SPECIAL COURSE

Harold Barton Kreider,* Witmer, Pa.
Witmer, Pa.

JUNIOR CLASS

A.B. COURSE

Kenneth Ellmaker Appel, Lancaster, Pa.
Columbia Avenue.
Herbert Franklin Arnold, Saylorsburg, Pa.
509 West James Street.

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Wallace Dunn Black, 536 West James Street.	Rocky Ridge, Md.
Elmer Roy Corman, 536 West James Street.	Spring Mills, Pa.
Renzie Watson Deihl, 562 West Lemon Street.	Lancaster, Pa.
Tillman Heisey Ebersole, 536 West James Street.	Elizabethtown, Pa.
Donald Able Geiser, 431 Nevin Street.	Easton, Pa.
Malcolm Morrison Haring, 428 South Queen Street.	Lancaster, Pa.
Earle Russel Herbert, 560 West James Street.	Nanticoke, Pa.
John Samuel Hollenbach, 402 West Lemon Street.	Middleburg, Pa.
Earle Leslie Leaver Hunter, Ephrata, Pa.	Ephrata, Pa.
Edgar Stambaugh Imler, 359 College Avenue.	Osterburg, Pa.
Raymond Shirk Johns, 437 West James Street.	Lancaster, Pa.
Charles Leon Johnston, 509 West James Street.	Smithsburg, Md.
Aldus Emerson Kegerreis, 524 West James Street.	Hershey, Pa.
Clayton Grant Keller, 435 N. Mary Street.	Lancaster, Pa.
Arthur King Kunkel, 558 West James Street.	Harrisburg, Pa.
George Kunkel, Jr., 231 Lancaster Avenue.	Harrisburg, Pa.
William Minster Kunkel, 231 Lancaster Avenue.	Harrisburg, Pa.
Alfred Merton Masonheimer, 415 West James Street.	Weatherly, Pa,
Israel George Nace, 536 West James Street.	Hanover, Pa.
Francis Leroy Olweiler,* Elizabethtown, Pa.	Elizabethtown, Pa.
Heister Guie Rhawn, 558 West James Street.	Catawissa, Pa.
Jacob Lloyd Rickert, 359 College Avenue.	Sellersville, Pa.

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Harry Lewis Shaffer, 208 North Mulberry Street.	Lancaster, Pa.
Samuel Michael Shelly, 402 West Lemon Street.	Steinsburg, Pa.
Charles Pentz Shriver, 534 West James Street.	Mechanicsburg, Pa.
V. Galen Slifer,* 437 West James Street.	North Wales, Pa.
Claude Richmond Stauffer,* Leola, Pa.	Leola, Pa.
Bruce Albion Wentz, 524 West Frederick Street.	Lancaster, Pa.
Charles Raymond Yockey, 436 Lancaster Avenue.	East Brady, Pa.
George Herbert Zellers, 143 East James Street.	Lancaster, Pa.

PH.B. COURSE

Harry Edward Brenner, 428 West King Street.	Lancaster, Pa.
Charles William Fenstermacher,† 534 West James Street.	Coplay, Pa.
Amandus Greenwald Gearhart, 437 West James Street.	Stroudsburg, Pa.
Burtis Rufus Glidden, 560 West James Street.	Aberdeen, Wash.
Charles Andrew Harter, 524 West James Street.	Maytown, Pa.
Karl Musser Houser, 558 West James Street.	Pennsylvania Furnace, Pa.
John Robert Johnston,* 509 West James Street.	Smithsburg, Md.
Richard Henry Kline,* 631 West Chestnut Street.	Lancaster, Pa.
William Abia Kurtz, 359 College Avenue.	South Hermitage, Pa.
Henry Myers Long, 534 West James Street.	Detroit, Mich.
Adam Zerphy Moore, 543 West Lemon Street.	Lancaster, Pa.

† Died.

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Raphael Nies,* 426 West James Street.	Hamburg, Pa.
Henry Osman O'Neil, 415 West James Street.	Norristown, Pa.
John Fred Pyfer, 605 College Avenue.	Lancaster, Pa.
John Adam Rieser, 505 West James Street.	Reading, Pa.
James Hervey Sherts, 437 West James Street.	Strasburg, Pa., R. D. 2.
Howard B. Stauffer, Jr.,* 433 Charlotte Street.	Landisville, Pa.
George W. Stoler,* 536 West James Street.	Saxton, Pa.
Roy Elmer Wood,* 560 West James Street.	Aberdeen, Wash.
Earl Brook Worthington, 526 West Frederick Street.	Dry Run, Pa.
Clarence Edgar Zorger, Harrisburg, Pa.	Harrisburg, Pa.

B.S. COURSE

Charles Custer Barchfeld, 560 West James Street.	Somerset, Pa.
Edward Henry Berger, 25 Dauphin Street.	Lancaster, Pa.
George Michael Blank, 560 West James Street.	Greensburg, Pa.
Carl Hess Brubaker, Columbia, Pa.	Columbia, Pa.
James Kimber Grimm, 526 West Frederick Street.	Lancaster, Pa.
Harry Vista Harbaugh, 509 West James Street.	Buena Vista Spring, Pa.
Arthur Slaymaker Herman, 415 West James Street.	Gordonville, Pa.
Raymond Henry Kray, 30 North Shippen Street.	Lancaster, Pa.
William Grove Markel, 359 College Avenue.	Sunbury, Pa.
Lawrence Tibbins Orner, 426 West James Street.	Beech Creek, Pa., R. D.

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Philip Raymond Schreiber, 501 West James Street.	York, Pa.
Richard Muhlenberg Stockton, 26 South Prince Street.	Lancaster, Pa.
Robert Lee Thornton, Jr.* 654 West Chestnut Street.	Lancaster, Pa.

SPECIAL COURSE

Abraham Koplin Hostetter, 415 West James Street.	Hanover, Pa.
Harry Benjamin Hostetter,* 715 North Duke Street.	Lancaster, Pa.
Llewellyn Leicester Iobst, 437 West James Street.	Freemansburg, Pa.
Harold Pollock Pierce,* 505 West James Street.	Belle Vernon, Pa.
Baker Royer,* Ephrata, Pa.	Ephrata, Pa.
Clarence Cornelius Thomas,* 419 North Charlotte Street.	Adamstown, Md.

SOPHOMORE CLASS

A.B. COURSE

Oscar Clair Allshouse, 509 West James Street.	Avonmore, Pa., R. D. 1.
John Albert Borger, 501 West James Street.	Aquashicola, Pa.
Owen Bruner Brubaker, Bird-in-Hand, Pa.	Bird-in-Hand, Pa.
Robert Lorenzo Clark, Jr., 814 Columbia Avenue.	Lancaster, Pa.
Foster Cleveland Crouse, 536 West James Street.	Berwick, Pa.
Benjamin Franklin Davis, Jr., 142 East Vine Street.	Lancaster, Pa.
David Alton Dietrich, 534 West James Street.	Hublersburg, Pa.
Alvin Francis Dietz, 509 West James Street.	Wind Gap, Pa., R. D. 1.
Charles Spindler Duttenhofer, 337 West Orange Street.	Lancaster, Pa.
Paul Nathan Fox, 536 West James Street.	New Bloomfield, Pa.

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George Treer Hambright, 26 West James Street.	Lancaster, Pa.
William Allen Hammond, New Holland, Pa.	New Holland, Pa.
John Michael Herzog, 415 West King Street.	Lancaster, Pa.
Roy Edward Hoke, 347 West Lemon Street.	Lancaster, Pa.
Henry Kissinger Reiss Holston, 558 West James Street.	Pottstown, Pa.
Azis Alexander Koorie, Franklin and Marshall Academy.	Paterson, N. J.
Daniel Herr Kunkel, 231 Lancaster Avenue.	Harrisburg, Pa.
Raymond Austin McClellan, Franklin and Marshall Academy.	Allentown, Pa.
George Washington March, 415 West James Street.	Norristown, Pa.
Jarrett Gover Moyer, 509 West James Street.	Ashland, Pa.
Stanley Nissley Mumma, 437 West James Street.	Landisville, Pa.
Paul Howard Musser,* 560 West James Street.	Philadelphia, Pa.
Ralph Schnader Myers, Terre Hill, Pa.	Terre Hill, Pa.
John Royer Noss, 602 West James Street.	Wakamatsu, Iwashiro, Japan.
Harold George Ripple, 567 West Walnut Street.	Lancaster, Pa.
Charles David Rockel, 501 West James Street.	Allentown, Pa.
Charles Theodore Roller, 434 Lancaster Avenue.	Weyers Cave, Va.
Howard Kann Spahr, 611 West Lemon Street.	Lancaster, Pa.
John Nevin Waugaman, 444 West James Street.	Export, Pa.
Frederick DeHart Wentzel, 536 West James Street.	Stony Creek Mills, Pa.
James William Witherspoon, 560 West James Street.	Mercersburg, Pa.
Clayton Warren Wotring, 359 College Avenue.	Jordan, Pa.

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PH.B. COURSE

William Lester Atchley, 402 West Lemon Street.	Stone Church, Pa.
Franklin Krauskop Brinkman, 234 South Queen Street.	Lancaster, Pa.
John Warren Forry, 536 West James Street.	West Leesport, Pa.
Joseph Hess Geiger, 437 West James Street.	Quarryville, Pa.
Allen Reiff Hartzell,* 536 West James Street.	South Perkasie, Pa.
Ferdinand Heine, 432 North Duke Street.	Lancaster, Pa.
Ray Reiff Hertzog, 426 West James Street.	Oley, Pa.
James Irwin Hoffman,* 415 West Lemon Street.	Halifax, Pa.
Roy Wilson Honsberger, 517 Lancaster Avenue.	Tremont, Pa.
David Sylvester Kaltreider, 534 West James Street.	York, Pa.
Adam Hershey Martin, 415 North Charlotte Street.	New Holland, Pa., R. D. 3.
Maurice William Miller, 359 College Avenue.	Summit Hill, Pa.
Edward Everett Mylin, 307 North Duke Street.	Lancaster, Pa.
Frederick Leet Reichert, 410 Manor Street.	Lancaster, Pa.
Meade Daniel Schaffner, 437 West James Street.	Enhaut, Pa.
William Mason Seibert, 415 West James Street.	Clearspring, Md.
Clarence Edgar Shappell, 359 College Avenue.	Hamburg, Pa.
Lambert L. Spancake, 359 College Avenue.	Pine Grove, Pa.
Simon Peter Whitehead, 437 West James Street.	Manor, Pa.
Walter Holmes Wishard,* 509 West James Street.	Leitersburg, Md.

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B.S. Course

Paul Remington Garrison, Columbia, Pa.	Columbia, Pa.
Earl Brandt Grosh, 558 West James Street.	Lititz, Pa.
Horace Egbert Haring, 428 South Queen Street.	Lancaster, Pa.
Myron William Jones, 616 West Lemon Street.	Lancaster, Pa.
William Albert Kline,* 565 West Lemon Street.	Schuylkill Haven, Pa.
Thomas Tony Martone, 558 West James Street.	Singerly, Md.
Paul Good Murray, Lancaster, Pa., R. D. 1.	Lancaster, Pa., R. D. 1.
Robert Barr Rohrer, 234 North Mary Street.	Lancaster, Pa.
John Franklin Starr,* 565 West Lemon Street.	Schuylkill Haven, Pa.
Harry Elijah Thomison,* 622 West Lemon Street.	Laurel, Del.
Paul Cameron Ward,* 437 West James Street.	Pennsylvania Furnace, Pa.
Marburg Downin Weagley,* 560 West James Street.	Waynesboro, Pa. R. D. 1.
Sidney Lanier Weller, Wrightsville, Pa.	Wrightsville, Pa.

Special Course

Edgar Charles Bleiler, 359 College Avenue.	Frackville, Pa.
Richard Karl Honaman, 310 West Lemon Street.	Lancaster, Pa.
Harry Leslie Jones, 534 West James Street.	Youngwood, Pa.
William Carson Sims,* Reading, Pa.	Reading, Pa.
James Archer Smith, 560 West James Street.	Havre de Grace, Md.
Frank William Teske, 536 West James Street.	Plymouth, Pa.
Harold Clifton Thorbahn, 155 East Chestnut Street.	Lancaster, Pa.

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Harry Franklin John Uberroth, 363 College Avenue.	Bethlehem, Pa.
John George Young,* 828 West Lemon Street.	Troy, N. Y.

FRESHMAN CLASS

A.B. COURSE

Ernest William Baker, 143 E. Clay Street.	Lancaster, Pa.
Stanley Cleveland Baker, 536 W. James Street.	Porter's Sideling, Pa.
Samuel Shenk Bard, East Petersburg, Pa.	East Petersburg, Pa.
Ernest Wright Brindle, 509 West James Street.	Waynesboro, Pa.
Jasper Roger Brown, 536 West James Street.	Esterly, Pa.
John Graybill Crawford, 441 West Chestnut Street.	Mifflintown, Pa.
Clement Weiser Dechant, College Campus.	Hanover, Pa.
Francis Marion Erdman, 433 Charlotte Street.	Shamokin, Pa.
Absalom Oliver Eshelman, Terre Hill, Pa.	Terre Hill, Pa.
William Elmer Feidt, 526 West Frederick Street.	Millersburg, Pa.
Thomas Billroth Garvey, 443 West Chestnut Street.	Lancaster, Pa.
Leon Bucher Gilbert, 622 West Lemon Street.	Reading, Pa.
Norman Berlin Gregory, 421 College Avenue.	Gilbert, Pa.
Frank Conrad Griel, 302 N. Pine Street.	Lancaster, Pa.
Paul Goodman Hayes, 558 North Queen Street.	Lancaster, Pa.
Rene LeVerne Herbst, 536 West James Street.	Shrewsbury, Pa.
Clairmont Arthur Kressley, 433 Charlotte Street.	Hegins, Pa.

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John Hershey Lenhard, Mountville, Pa.	Mountville, Pa.
Christ. Longenecker Martin, 124 East Chestnut Street.	Elizabethtown, Pa.
George Jacob Moyer, 421 College Avenue.	Womelsdorf, Pa.
Conrad Clever Muehe, 443 Nevin Street.	Lancaster, Pa.
Lewis John Musser, 534 West James Street.	Berlin, Pa.
Robert Powers, 441 West James Street.	Lancaster, Pa.
Russell Henry Rhoads, 233 East Clay Street.	Lancaster, Pa.
William Henry Sassaman, 363 College Avenue.	Breinigsville, Pa., R. D. 2.
Paul Kern Shirk, Leola, Pa.	Leola, Pa.
Harold Glenn Shoemaker, 426 West James Street.	Bedford, Pa.
Arthur Adler Sondheimer, 131 College Avenue.	Lancaster, Pa.
Paul Tobias Stonesifer, 426 West James Street.	Mount Crawford, Va.
Oscar Mininger Stoudt, 405 West Lemon Street.	Quakertown, Pa.
Simon Hezekiah Waugaman, 444 West James Street.	Export, Pa.
Francis Smith Weiss, 509 West James Street.	Stroudsburg, Pa.
Paul Dennis Wierman, 436 Lancaster Avenue.	Arendtsville, Pa.

PH.B. COURSE

Carl Franklin Adams, 128 South Queen Street.	Lancaster, Pa.
Louis Henry Coxe, III, 449 West Orange Street.	Wilmington, Del,
Frederic Steinman Foltz, 249 Charlotte Street.	Lancaster, Pa.
David Herr Frantz, 321 East King Street.	Lancaster, Pa.

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Percy Stanley Fritz, 421 College Avenue.	Reading, Pa.
George Roberts Hetrich 558 West James Street.	Birdsboro, Pa.
Ethelbert Johnson, 142 College Avenue.	Berkeley, California.
Gerald Wilberforce Levan, 558 West James Street.	Alexandria, Pa.
Joseph Orndorff Levan, 558 West James Street.	Alexandria, Pa.
Alton Walter Lick, 536 West James Street.	Marysville, Pa.
Titus Breinig Lobach, 249 College Avenue.	Lancaster, Pa.
Benjamin Weber Luttenberger, 519 South Lime Street.	Lancaster, Pa.
Cyrus Hollinger Meminger, 138 East Orange Street.	Lancaster, Pa.
Stewart Victor Rohrbaugh, 536 West James Street.	New Freedom, Pa.
Ralph Edwin Starr, 536 West James Street.	Klingerstown, Pa.
Herbert Raymond Weitzel, Lititz, Pa.	Lititz, Pa.
George Jacob Willauer, 417 Charlotte Street.	Stockerton, Pa.

B.S. COURSE

Walker Nevin Brenner, 534 West James Street.	York, Pa.
Ivan Edgar Fisher, 436 Lancaster Avenue.	United, Pa.
J. Reah Hollinger, 35 S. Prince Street.	Lancaster, Pa.
Earle Weant Koons, 501 W. James Street.	Taneytown, Md.
Paul Bitzer Leinbach, 505 West James Street.	Reading, Pa.
John William Rese, 558 West James Street.	Bellevue, Pa.
John Donald Rohrer, 116 East New Street.	Lancaster, Pa.

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Clarence Sener Stormfelts, 222 East New Street.	Lancaster, Pa.
Ira Bitzer Winger, Ephrata, Pa.	Ephrata, Pa.
August Rohe Zapp, 437 West James Street.	Oxford, N. J.

SPECIAL COURSE

Michael Joseph Czapp, 801 Columbia Avenue.	Northampton, Pa.
Franklin Geary Derr, 142 College Avenue.	Marietta, Pa.
Chester Rowell Graff, 560 West James Street.	Fresno, Cal.
John Robert Groff, 239 Lancaster Avenue.	Lancaster, Pa.
Samuel Vaughan Hulse, Jr., 560 West James Street.	Newark, N. J.
David Keith, Jr., 560 West James Street.	Salt Lake City, Utah.
Jacob Cyrus Messner, 359 College Avenue.	Durlach, Pa.
Harold Shauer Rambo, 558 West James Street.	Pottstown, Pa.
David Beaver Rupley, 405 West Lemon Street.	York, Pa.
John Frederick Sener, Lititz Pike.	Lancaster, Pa.
Harold Frantz Shartle, 30 South Prince Street.	Lancaster, Pa.
Paul Eugene Stroup, 421 College Avenue.	Elizabethville, Pa.
William Tinsley, 513½ West James Street.	Lancaster, Pa.

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Adams, Carl Franklin,	Lancaster, Pa.
Adams, Benjamin Franklin,	Lancaster, Pa.
Adams, Robert Houston,	Lancaster, Pa.
Andreas, John Reuben,	Wilkes-Barre, Pa.
Alesbury, Marsh,	Summit, N. J.
Anstock, Earl David,	Frackville, Pa.
Arisman, George Martin,	Boswell, Pa.
Bachman, Harry Musser,	Strasburg, Pa.
Bair, John McKinley,	New Providence, Pa.
Barr, James Jacob.	Lancaster, Pa.
Barr, Richard Hersh,	Lancaster, Pa.
Bard, Levi Andes,	Leacock, Pa.
Bard, Samuel Shenk,	East Petersburg, Pa.
Bausman, Franklin Warren,	Bausman, Pa.
Bell, Carl Fred,	New York, N. Y.
Bennett, Charles John,	Mt. Joy, Pa.
Biemensderfer, Daniel Luke,	Kissell Hill, Pa.
Bittle, Stanley Edward,	Tremont, Pa.
Bloom, Hiram Leander,	Sunbury, Pa.
Boyle, John Annin,	Lancaster, Pa.
Brandt, David Shelter,	Lancaster, Pa.
Brant, John Gordon,	Friedens, Pa., No. 1.
Brecht, Robert Paul,	Lancaster, Pa.
Breneman, Adam Royer,	Lancaster, Pa.
Brinton, William Penn,	Lancaster, Pa.
Brobst, Arthur Leroy,	Lancaster, Pa.
Brown, Charles Byron,	Lancaster, Pa.
Brown, Jacob Hay,	Paradise, Pa.
Brown, Jasper Roger,	Esterly, Pa.
Brown, John William,	Lancaster, Pa.
Brown, Robert Joseph,	Lancaster, Pa.
Browne, Harry Eli,	Lancaster, Pa.
Brubaker, Abram Kurtz,	Lancaster, Pa.
Brubaker, Clarence Norse,	Bird-inHand, Pa.
Buch, John Edward,	Lititz, Pa.

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Bucher, Robert Lee,	Watsontown, Pa.
Buckius, Walter Roberts,	Lancaster, Pa.
Burkholder, Henry Clay,	Lancaster, Pa.
Burkholder, Paul Ebersole,	Elizabethtown, Pa.
Burns, William Robert,	Lancaster, Pa.
Charles, John Raymond,	Conestoga Center, Pa.
Clarkson, Claude Senft,	Cochranville, Pa.
Clendenin, Beverly Sinclair,	Quarryville, Pa.
Clever, Samuel Kelso,	Shippensburg, Pa.
Cochran, John Franklin,	Lancaster, Pa.
Cochran, John Lawrence,	Bird-in-Hand, Pa.
Cooper, Herbert Kurtz,	Brownstown, Pa.
Cooper, William Franklin,	Lancaster, Pa.
Cox, Alexander,	Lancaster, Pa.
Crawford, Howe Macleon,	Mifflintown, Pa.
Crawford, John Graybill,	Mifflintown, Pa.
Cresswell, Robert Nicholas,	Petersburg, Pa.
Custer, Russell Detweiler,	Cedars, Pa.
Dabney, Robert David,	New York, N. Y.
Daugherty, Davis Clifton,	Butler, Pa.
Davidson, James Ferdinand,	Oshkosh, Wis.
Deacon, William Whitman,	Strasburg, Pa.
Deckert, Daniel Beck,	Schuylkill Haven, Pa.
Deibert, George Charles,	Landingville, Pa.
Dembo, Leon Haskins,	Lancaster, Pa.
Derr, Frank Geary,	Marietta, Pa.
Detz, Lewis May,	Columbia, Pa.
Diller, Samuel William,	Lancaster, Pa.
Doebler, Walter Boardman,	Lancaster, Pa.
Draper, Herbert Charles,	Lancaster, Pa.
Durst, Frank Sherman,	Grantsville, Md.
Dyer, Ernest Fred,	Lancaster, Pa.
Ebersole, Bernard Wagner,	Mt. Joy, Pa.
Eby, Claude,	Leaman Place, Pa.
Erb, Zenas Harnish,	Lititz, Pa.
Eshbach, Harry Heins,	Lancaster, Pa.
Eshleman, Absalom Oliver,	Terre Hill, Pa.
Evans, Samuel Yundt,	Lancaster, Pa.
Farmer, Clayton Stultz,	Marietta, Pa.

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Farver, Willis Theodore,	Lancaster, Pa.
Fehr, Stanley James,	Tatamy, Pa.
Fenstermacher, Edwin Franklin,	Coplay, Pa.
Ferguson, John Herman,	Clearfield, Pa.
Flickinger, Jay Harold,	New Holland, Pa.
Foltz, Frank,	Lititz, Pa.
Foltz, Frederic Steinman,	Lancaster, Pa.
Forstburg, Frank McLaughlin,	Media, Pa., No. 2.
Forstburg, Robert Bolenius,	Media, Pa., No. 2.
Fox, Reginald Judson,	New York, N. Y.
Frantz, Abram Peters,	Lancaster, Pa.
Frantz, David Herr,	Lancaster, Pa.
Frey, Charles Haverstick,	Lancaster, Pa.
Frey, Norman Remley,	Lancaster, Pa.
Froelich, Edward Immel,	Mountville, Pa.
Garvey, Thomas Billroth,	Lancaster, Pa.
Garvey, James Farrell,	Lancaster, Pa.
Geist, Ira Stoner,	Lancaster, Pa.
Gerz, Donald Alexander,	Lancaster, Pa.
Glen, George Alger,	Detroit, Mich.
Gleasner, Albert Ralph,	Shanksville, Pa.
Gleasner, William Earle,	Shanksville, Pa.
Gould, Howard Culp,	Mt. Carmel, Pa.
Graupner, Frederic William,	Harrisburg, Pa.
Graybill, David Williams,	East Petersburg, Pa.
Grebe, Louis Fred,	Stoney Creek Mills, Pa.
Gregory, Normal Berlin,	Gilbert, Pa.
Griel, Frank Conrad,	Lancaster, Pa.
Griesemer, Raymond Clarence,	Allentown, Pa.
Grigg, Harold Maurice,	Haddonfield, N. J.
Groff, Nelson Forney,	East Petersburg, Pa.
Gross, Edward Leopold,	Lancaster, Pa.
Grubb, Howard Scott,	Quarryville, Pa., No. 2.
Grube, Ray Young,	Lititz, Pa., No. 4.
Gunderman, Donald Conrad,	Hoboken, Pa.
Grube, John Franklin,	Lancaster, Pa.
Hackman, William Huber,	Womelsdorf, Pa.
Hager, William Henderson,	Lancaster, Pa.
Hambleton, Jerre Brown,	Wakefield, Pa.

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Harnish, David Paul,	Lancaster, Pa.
Harnish, Louis Christian,	Lancaster, Pa., No. 2.
Harnish, Raymond Brown,	Lancaster, Pa.
Harsh, Amos Urich,	Lancaster, Pa.
Hartman, Ezra Flickinger,	Littlestown, Pa.
Haugh, Raymond Talbert,	York, Pa.
Hayes, Paul Goodman,	Lancaster, Pa.
Helff, Normal Earl,	Hummelstown, Pa.
Heller, Iden Dalbey,	Lancaster, Pa.
Henry, William Keeler,	Lancaster, Pa.
Hess, Daniel Thompson,	Quarryville, Pa.
Hess, Henry Lloyd,	Lancaster, Pa.
Hetrich, George Roberts,	Birdsboro, Pa.
Hiester, Ernest Morgan,	Lancaster, Pa.
Hillegass, Russell Kern,	Leacock, Pa.
Hollinger, Jacob Reah,	Lancaster, Pa.
Hollinger, John Hertzler,	Hollinger, Pa.
Hoff, Clair Albert,	Altoona, Pa.
Hoyt, Gladding Powell,	Columbia, Pa.
Huber, Charles Benedict,	Lancaster, Pa.
Hunsecker, Paul Leon,	Leola, Pa.
Hunter, Ellis Daniel,	Stoney Creek Mills, Pa.
Ilyus, Edmund Burwell,	Lancaster, Pa.
Irvin, George Hugh,	Pennsylvania Furnace, Pa.
Jabour, Michel,	Brooklyn, N. Y.
Johnson, Ethelbert,	Marietta, Pa.
Johnston, Frank Henry,	Coplay, Pa.
Kendig, Benjamin Franklin,	Salunga, Pa.
Kessler, Edward John,	Philadelphia, Pa.
Keinert, Maurice,	Lancaster, Pa.
Kinzer, Arthur Weidler,	New Holland, Pa.
Kinzer, William Slaymaker,	Lancaster, Pa.
Klein, Frederic Shriver,	Lancaster, Pa.
Klein, Richard Henry,	Lancaster, Pa.
Klemmer, Robert Nicolaus,	New Holland, Pa.
Knecht, Walter Nevin,	Parvin, Pa.
Kramer, Max Preston,	Gap, Pa.
Landis, David Allen,	East Petersburg, Pa.
Landis, Harry Hartman,	East Petersburg, Pa.

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Lefever, Thaddeus Roy,	West Willow, Pa.
Lefever, Wilmer Brinton,	Reading, Pa.
Leimbach, Milton William,	Baltimore, Md.
Lenhard, John Hershey,	Mountville, Pa.
Levan, Joseph Orndorff,	Alexandria, Pa.
Livingston, Richard Alvin,	Lancaster, Pa.
Line, Loy Elmer,	Altoona, Pa.
Lohr, Jacob Donald,	Stoyestown, Pa.
Long, James Rutter,	Drumore, Pa.
Lutz, Joseph Russell,	Lancaster, Pa.
Lutz, Lewin Richmond,	Glen Rock, Pa.
McAllister, Lloyd,	West Willow, Pa.
McCormick, Clarence Edgar,	Sparrows Point, Md.
McGovern, John Thomas,	Lancaster, Pa.
McGovern, Walter Hager,	Lancaster, Pa.
McGrann, Bernard Penn-Gaskell,	Lancaster, Pa.
McHose, Allen Irvine,	Lancaster, Pa.
McKeehan, Hobart Dietrich,	Mansville, Pa.
McMullin, Samuel James,	Millheim, Pa.
McMullin, William Jerome,	Millheim, Pa.
MacHatton, Joseph George Park,	La Park, Pa.
Mackley, Bucher Carl,	Manheim, Pa.
Madison, Richard Calvin,	Lancaster, Pa.
Maltzberger, John Samuel,	Reading, Pa.
Manette, Harry Leo,	Brockport, Pa.
Marrow, Robert Brayton,	Lancaster, Pa.
Marshall, Cloyd Ross,	Dumont, N. J.
Masser, Mark Milliard,	Hegins, Pa.
Maurer, Earl Ressler,	Hegins, Pa.
Mearig, John Frederick,	New Holland, Pa.
Mellinger, Edward Roscoe,	Lancaster, Pa., No. 1.
Meminger, Cyrus Hollinger,	Lancaster, Pa.
Merrill, William Jennings Bryan,	Garrett, Pa.
Messinger, James Franklin,	Tatamy, Pa.
Meyer, David Paul,	Rohrerstown, Pa.
Miller, Charles David,	Lebanon, Pa.
Miller, Grover Adlai,	Mt. Aetna, Pa.
Miller, James Donald,	Landisville, Pa.
Miller, Karl Mats,	Lancaster, Pa.
Miller, Rupert Griel,	Lancaster, Pa.

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Miller, William Abraham,	Altoona, Pa.
Mohler, Irwin Charles,	Lancaster, Pa.
Moore, James Penrose,	East Downingtown, Pa.
Moorehead, Joseph Watson,	Philadelphia, Pa.
Moorehead, Wilbert Earl,	Imler, Pa.
Moskovitz, Morris Arthur,	Palmerton, Pa.
Mountz, Walter James,	Reading, Pa.
Moyer, Elmer Harold,	Perkasie, Pa.
Myer, Rufus,	Ephrata, Pa.
Myers, Cleon Nelson,	Lancaster, Pa.
Myers, Frank Brenner,	Lancaster, Pa.
Mylin, Clement Rodney,	Willow Street, Pa.
Neff, Samuel Wilson,	Perkasie, Pa.
Newpher, James Oliver,	Mt. Joy, Pa.
Noecker, Samuel Morris,	Camden, N. J.
Noecker, Walter Kahn,	Camden, N. J.
Noss, George Sherer,	Wakamatsu, Japan,
Ormrod, George Henry,	Emaus, Pa.
Pascoe, Robert Malcome,	Allentown, Pa.
Peris, Roy Nicholas,	Landisville, Pa.
Peter, Harvey Arthur,	Toledo, Ohio.
Phillips, Oliver,	Ebensburg, Pa.
Prettyman, John Cosgrill,	Wilmington, Del.
Pry, Hugh Mentzer,	Keedysville, Md.
Ranck, Mahlon,	Lancaster, Pa.
Reichardt, Charles Francis,	Ephrata, Pa.
Reed, Ralph Raymond,	Orwigsburg, Pa.
Rhode, Luther Winfield,	Lancaster, Pa.
Reiter, John Harkey,	Pottsville, Pa.
Rese, John William,	Avalon, Pa.
Rishel, Paul Ralph,	Millheim, Pa.
Rohrer, Robert Hensel,	Quarryville, Pa.
Rohr, John Ambrose,	Lancaster, Pa.
Rudy, Robert Bartel,	Lancaster, Pa.
Ruff, Russell, Jacobs,	New Oxford, Pa.
Rupley, David Besore,	York, Pa.
Rupley, Frederick Augustus,	York, Pa.
Salen, James Kirkpatrick,	Tremont, Pa.
Sassaman, William Henry,	Breinigsville, Pa.
Schaeffer, John Adam,	Fleetwood, Pa.

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Schantz, Howard Roeder,	E. Greenville, Pa.
Schantz, James Roeder,	E. Greenville, Pa.
Schiedt, Richard Conrad,	Lancaster, Pa.
Seibert, Allan Benton,	Clear Spring, Md.
Seibert, John Unger,	Reading, Pa.
Seitz, Jacob Walter,	Rohrerstown, Pa.
Sellers, James Monroe,	Sellersville, Pa.
Shirk, Paul Kern,	Leola, Pa.
Shirk, Samuel Carpenter,	Lancaster, Pa.
Shonk, Alvin Edwin,	Mt. Joy, Pa.
Showalter, John Clemens,	New Holland, Pa.
Shreiner, John Newton,	Lititz, Pa., No. 6.
Shriner, Edward Getzendanner,	Frederick, Md.
Shue, Ephraim Widmyer,	Lancaster, Pa.
Singer, Charles Kellemberger,	Paradise, Pa.
Skiles, John Dunlap,	Lancaster, Pa.
Skottowe, Edmund,	Narvon, Pa.
Slagen, John Albert,	Lancaster, Pa.
Smith, Charles Archie,	Osterburg, Pa.
Smith, Eugene Carter,	Quarryville, Pa.
Smith, Glenn Orren,	Derry, Pa.
Smith, Marshall Elias,	Lancaster, Pa.
Smith, Walter Allen,	Derry, Pa.
Snyder, Franklin Faust,	Lancaster, Pa.
Spangler, Glenn Rudolph,	McConnellsburg, Pa.
Starr, Ralph Edwin,	Klingerstown, Pa.
Steele, Sherman Ephraim,	Lancaster, Pa.
Stiely, William Russell,	Sacramento, Pa.
Stine, Joseph Raphael,	Elizabethville, Pa.
Stoner, Harry Shaub,	Lancaster, Pa.
Storb, Henry Mentzer,	New Holland, Pa.
Stormfeltz, Clarence Sener,	Lancaster, Pa.
Stoudt, Oscar Mininger,	Quakertown, Pa.
Strickler, Alfred Bursk,	Columbia, Pa.
Thomas, Benjamin Franklin,	Shamokin, Pa.
Thomas, Howard Weisner,	Leesport, Pa.
Thompson, Daniel Herbert,	Bridgeton, N. J.
Tothero, Harry Harding,	Stevens, Pa.
Trexler, George Washington,	Lehighton, Pa.
Troll, Conrad William,	St. Clairsville, Ohio.

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Ulrich, Milton,	Ephrata, Pa.
Wackerman, Charles S.,	York, Pa.
Ward, Warren Simon	Pennsylvania Furnace, Pa.
Weaver, Herbert Bachman,	Lancaster, Pa.
Weaver, Houston Emerson,	Lancaster, Pa.
Weaver, John William,	Lancaster, Pa.
Weaver, William Roy,	Landisville, Pa.
Weaver, William Wiley,	Lancaster, Pa.
Werner, Clark John Carroll,	Allentown, Pa.
Wike, Milton McCoy,	Columbia, Pa.
Williams, David Allen,	Stroudsburg, Pa.
Witmer, Christian Coover,	Reamstown, Pa.
Wolf, Charles Eckert,	Lititz, Pa.
Woods, George Boyd,	Leaman Place, Pa.
Woods, John Scott,	Leaman Place, Pa.
Yoder, Robert Emery Patterson,	Allentown, Pa.
Yingst, Chancey Clinton,	Lebanon, Pa.
Zimmerman, Clarence Arthur,	Haddonfield, N. J.
Zimmerman, Ivan Martin,	Lancaster, Pa.

Total 291.

SUMMARY

Graduate Students	23
Seniors	60
Juniors	72
Sophomores	74
Freshmen	73
	302
Academy	291
Total	593
Deduct names given twice	25
Total	568

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Franklin and Marshall College

Lancaster, Pennsylvania

The Catalogue
1914-1915

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Catalogue

OF

Franklin and Marshall College

LANCASTER, PENNSYLVANIA

1914-1915

THE INTELLIGENCER PRINT
LANCASTER, PA.

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COLLEGE CALENDAR

1914

Examinations for Entrance.....September 7–8
First semester begins at 10 a. m.....September 10
Thanksgiving Day recess.....November 26–28
Christmas vacation begins at 12:20 p. m...Dec. 18

1915

"Make-up" examinations.....January 4
College exercises begin at 8:10 a. m.....January 5
Semester examinations.....January 21–27
Registration.....January 27–28
Second semester begins.....February 1
Washington's Birthday—Holiday.....February 22
Easter recess.....April 1–5
Senior examinations.....May 3–7
Anniversary of Goethean Literary Society..May 7
Senior vacation begins.....May 10
Ascension Day—Holiday.....May 13
Anniversary of Diagnothian Literary Society, May 14
Junior Oratorical Contest at 7:30 p. m.....June 5
Baccalaureate Sunday.....June 6
Advisory Council of Alumni at 10 a. m.....June 8
Meeting of the Board of Trustees at 2 p. m. June 8
Class Day exercises at 3 p. m.....June 8
Fraternity and Class Reunions.....June 8
Literary Society reunions at 10 a. m.....June 9
Meeting of the Alumni Association,
at 11:30 a. m.....June 9

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COLLEGE CALENDAR

1915

Alumni Luncheon, Campus, at 12:30 p. m. June 9
Annual baseball game, Athletic Field,
at 3 p. m. ..... June 9
Meeting of the Phi Beta Kappa Fraternity
at 6:45 p. m. ..... June 9
Phi Beta Kappa Oration at 7:30 p. m. ..... June 9
Alumni Banquet at 9 p. m. ..... June 9
Seventy-ninth Annual Commencement
at 9 a. m. ..... June 10
Summer vacation of thirteen weeks.
Examinations for entrance ..... September 6–7
Registration ..... September 8
"Make-up" examinations ..... September 8
First semester begins at 10 a. m. ..... September 9
Thanksgiving Day recess ..... Nov. 25–27
Christmas vacation begins at 12:20 p. m. .. Dec. 17

1916

"Make-up" examinations ..... January 3
College exercises begin at 8:10 a. m. ..... January 4
Semester examinations ..... January 20–26
Second semester begins ..... January 31
Washington's Birthday—Holiday ..... February 22
Easter recess ..... April 20–24
Eightieth Annual Commencement ..... June 8

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BOARD OF TRUSTEES

Elected by the Board

Term Expires

J. W. B. BAUSMAN, ESQ. 1915
Lancaster, Pa.

WILLIAM H. HAGER 1916
Lancaster, Pa.

MILTON F. BARINGER 1916
Wyncote, Pa.

A. C. KEPLER 1917
Lancaster, Pa.

HON. W. U. HENSEL, LITT.D., LL.D. 1919
Lancaster, Pa.

HENRY S. WILLIAMSON 1920
Lancaster, Pa.

CHARLES G. BAKER, ESQ. 1921
Lancaster, Pa.

JAMES SHAND 1922
Lancaster, Pa.

CHARLES F. MILLER 1924
Lancaster, Pa.

Elected by the Eastern Synod

B. F. FACKENTHAL, JR., SC.D 1915
Riegelsville, Pa.

A. H. ROTHERMEL, ESQ. 1915
Reading, Pa.

EDWARD H. RENINGER 1917
Allentown, Pa.

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Allentown, Pa.

L. B. KEIPER 1918
Lancaster, Pa.

HENRY H. HARVEY 1918
Wilkes-Barre, Pa.

C. C. LEADER 1919
Shamokin, Pa.

WILLIAM NEVIN APPEL, ESQ. 1922
Lancaster, Pa.

E. S. FRETZ 1922
Pottstown, Pa.

REV. N. C. SCHAEFFER, D.D., LL.D. 1923
Lancaster, Pa.

*REV. JACOB B. KERSCHNER, D.D 1923
Freeland, Pa.

JUDGE GEORGE KUNKEL, LL.D 1924
Harrisburg, Pa.

Elected by the Synod of the Potomac

WILLIAM J. ZACHARIAS, ESQ. 1917
Chambersburg, Pa.

J. W. WETZEL, ESQ. 1919
Carlisle, Pa.

REV. A. S. WEBER, D.D. 1920
Baltimore, Md.

GEORGE D. ROBB 1920
Altoona, Pa.

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ROBERT L. MOTTER 1921
York, Pa.

REV. CHARLES W. LEVAN, D.D.....1923
Alexandria, Pa.

Elected by the Pittsburgh Synod

HON. JOHN M. JAMISON 1916
Greensburg, Pa.

WM. R. BARNHART 1921
Greensburg, Pa.

FREDERICK W. BIESECKER, ESQ.....1924
Somerset, Pa.

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OFFICERS AND COMMITTEES OF THE BOARD OF TRUSTEES

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HON. W. U. HENSEL, LITT.D., LL.D.

Vice Presidents

B. F. FACKENTHAL, JR., SC.D.

N. C. SCHAEFFER, D.D., LL.D.

Recording Secretary

H. S. WILLIAMSON

Corresponding Secretary

GEORGE F. MULL, A.M., LITT.D.

Treasurer

CHARLES A. SAUBER

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STANDING COMMITTEES

Finance and Endowment

B. F. Fackenthal, Jr., James Shand,
H. S. Williamson, J. W. B. Bausman,
L. B. Keiper, C. F. Miller,
William Nevin Appel.

Discipline

James Shand, W. H. Hager,
W. J. Zacharias, B. F. Fackenthal, Jr.,
J. W. B. Bausman, C. G. Baker.

Instruction and Degrees

N. C. Schaeffer, George D. Robb,
J. W. Wetzel, E. H. Reninger,
J. B. Kerschner, A. H. Rothermel,
C. W. Levan.

Library

A. S. Weber, N. C. Schaeffer,
F. C. Seitz, A. H. Rothermel,
M. F. Baringer, Robert L. Motter,
F. W. Biesecker.

Grounds and Buildings

W. H. Hager, H. S. Williamson,
A. C. Kepler, W. R. Barnhart,
James Shand, E. S. Fretz.

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Wilhelm Estate

F. W. BIESECKER, H. H. HARVEY,
JOHN M. JAMISON, W. R. BARNHART,
WILLIAM NEVIN APPEL.

Observatory

C. C. LEADER, C. W. LEVAN,
W. J. ZACHARIAS, E. S. FRETZ.

Academy

JAMES SHAND, H. S. WILLIAMSON,
W. H. HAGER, A. C. KEPLER,
F. C. SEITZ.

Laboratory and Museum

A. C. KEPLER, JOHN M. JAMISON,
R. L. MOTTER, M. F. BARINGER.

Gymnasium and Athletics

H. S. WILLIAMSON, W. H. HAGER,
L. B. KEIPER, E. H. RENINGER,
C. G. BAKER, C. F. MILLER,
GEORGE D. ROBB.

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ADVISORY COUNCIL OF ALUMNI

The following Alumni have been elected as members of the Advisory Council of Alumni, authorized by the Board of Trustees and by the Alumni Association of Franklin and Marshall College:

T. M. BALLIET, PH.D., '76, New York, N. Y.
J. FRANKLIN MEYER, PH.D., '94, Washington, D. C.
HON. GEO. W. WAGNER, '85, Reading, Pa.
T. B. APPEL, M.D., '89, Lancaster, Pa.
W. H. KELLER, ESQ., '91, Lancaster, Pa.
REV. C. J. MUSSER, D.D., '78, Philadelphia, Pa.
REV. L. KRYDER EVANS, D.D., '64, Pottstown, Pa.
HON. GEO. KUNKEL, LL.D., '76, Harrisburg, Pa.
S. H. RANCK, '92, Grand Rapids, Mich.

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FACULTY

HENRY HARBAUGH APPLE, A.M., D.D., LL.D.,
President of the College; Upon the Geo. F. Baer Foundation.
441 College Avenue.

JOHN SUMMERS STAHR, PH.D., D.D., LL.D.,
J. W. Nevin Professor of Mental and Moral Science, Aesthetics and the Philosophy of History.
445 West James Street.

JEFFERSON E. KERSHNER, PH.D.,
Professor of Mathematics and Physics.
445 West Chestnut Street.

GEORGE FULMER MULL, A.M., LITT.D.,
Professor of the Latin Language and Literature.
431 West James Street.

RICHARD CONRAD SCHIEDT, A.M., PH.D., SC.D.,
The B. F. Fackenthal, Jr., Professorship of Natural Science (Biology and Geology).
1043 Wheatland Avenue.

ANSELM VINET HIESTER, A.M., SC.D.,
Professor of Political and Social Science.
320 Race Avenue.

CLARENCE NEVIN HELLER, A.M.,
Professor of the Greek Language and Literature.
230 Lancaster Avenue.

HERBERT HUEBENER BECK, A.C.,
Professor of Chemistry and Mineralogy.
Y. M. C. A. Building.

A. THOMAS G. APPLE, A.M.,
Professor of Mathematics and Astronomy.
237 Lancaster Avenue.

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H. M. J. KLEIN, PH.D.,
Audenried Professor of History and Archæology.
548 West James Street.

VICTOR WILLIAM DIPPELL, PH.D.,
Professor of Modern Languages.
536 West Walnut Street.

JOHN NEVIN SCHAEFFER, B.LITT., OXON.
Professor of Classics.
25 South West End Avenue.

HOWARD BRISTOL GROSE, JR., A.M.,
Professor of the English Language and Literature.
351 West Walnut Street.

MCQUILKIN DE GRANGE, A.M.,
Professor of Public Speaking. English and French.

CHARLES W. MAYSER,
Professor of Physical Education.
55 North West End Avenue.

M. W. RAUB, M.D.,*
Curator of the Museum.
329 North West End Avenue.

WILLIAM EDWIN WEISGERBER, PH.M.,
Assistant in Chemical Laboratory.
333 Nevin Street.

AMOS HENRY HERSH, A.B.,
Assistant in Biological Laboratory.
561 SouthLime Street.

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OFFICERS AND COMMITTEES OF THE FACULTY

President

HENRY HARBAUGH APPLE, A.M., D.D., LL.D.

Secretary

GEORGE FULMER MULL, A.M., LITT.D.

Registrar

ANSELM VINET HIESTER, A.M., SC.D.

On Admission

PROFESSORS MULL, APPLE AND KLEIN

On Registration and Electives

PROFESSORS HIESTER, SCHIEDT AND MULL

On Athletics

PROFESSORS BECK, MULL AND SCHAEFFER

On Non-Athletic Organizations

PROFESSORS SCHIEDT, HELLER AND DIPPELL

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FRANKLIN AND MARSHALL COLLEGE

History and Description

Franklin and Marshall College was formed by the union of two older educational institutions which in their independent existence labored for common ideals and aims and ministered to a common constituency. Franklin College had been maintained in Lancaster, Pa., for fifty-five years and Marshall College had thrived for seventeen years in Mercersburg, Pa., when by an act of the Legislature of Pennsylvania they were merged and consolidated under the name of Franklin and Marshall College, to be located in the city of Lancaster, or its immediate vicinity. The effort to enlarge their sphere of usefulness, by joining their means and labors under one organization, enabled them to confer a more extensive benefit upon the citizens of this state, in the promotion of liberal and scientific learning. The wisdom of that act is justified in the rich fruitfulness and illustrious history of Franklin and Marshall College as an aggressive and vigorous institution for the promotion of higher education.

Franklin College

The educational history of this institution runs back to the trying times of the latter part of the eighteenth century. The charter was granted March 10, 1787. When the infant republic was being tested in its right to live and its ability to grow,

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Franklin College was founded in the historic borough of Lancaster. Those who conceived the purpose of this third oldest college in Pennsylvania and brought her into being were men prominent in the establishment of the nation and concerned with the development of her people. In the necessity of improving the younger generation, that there might be assured a strong American nation, it was especially requisite to minister to the educational needs of the large and thrifty, but greatly neglected, German population of the state. To this end, a petition was made to the Legislature of Pennsylvania to establish a German College and Charity School in Lancaster. "From a conviction of the necessity of diffusing knowledge through every part of the state, in order to preserve our present republican system of government, as well as to promote those improvements in the arts and sciences which alone render nations respectable, great, and happy," it was asked that an institution should be established, "to promote an accurate knowledge of the German and English languages, also of the learned languages, of mathematics, morals, and natural philosophy, divinity, and all such other branches of literature as will tend to make good men and useful citizens." Out of "profound respect for the character of his Excellency, the President of the State, her most distinguished citizen" and one of its projectors and liberal patrons, the school was called Franklin College. Among the first trustees were four signers of the Declaration of Independence, seven officers of the War of the Revolution, three who became governors of Pennsylvania, two dis-

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tinguished jurists, and two who became senators of the United States. Of the ministers, seven were Reformed, seven Lutheran, one Moravian, and one Roman Catholic. The specific aim of the college was further emphasized in the preamble of the act of incorporation. The grant was made because "The citizens of this state, of German birth or extraction, have eminently contributed by their industry, economy, and public virtues to raise the state to its present happiness and prosperity"—and because of "a desire to increase and perpetuate the blessings derived to them from the possession of property and a free government"—"to train up a succession of youth to fully understand, zealously practice, and strenuously defend the republican form of government." The scope of her sphere was thus national in its conception.

Founded in the interest of Germans, it was never intended to be, as it never became, exclusively a German institution, but it served to foster an appreciation of German life and literature, and formed an environment in which the sons of Germans might be educated without being alienated from the faith of their fathers. In emphasizing the English course and teaching "all those branches of literature which are usually taught in the colleges of Europe and America" it was a valuable agency to mediate German thought and mould German life into American manhood. Its purpose to give higher learning and liberal culture to the people of the interior of the state was always held firmly in view, and in the face of many difficulties in its environment, and the lack of adequate financial sup-

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port, it continued a blessed service during the time of its independent existence. Among the first trustees were the Hons. Thomas Mifflin, Thomas McKean, Robert Morris, George Clymer, Benjamin Rush, and the Revs. Drs. J. H. C. Helmuth, Casper Weiberg, Henry E. Muhlenberg, and William Hendel. Its effective worth may be estimated from the statement of Benjamin Rush, who said of its faculty, "A cluster of more learned or better qualified masters, I believe, I have never met in any university." It included Dr. F. A. Muhlenberg, the botanist, Dr. Frederick Valentine Melsheimer, "the father of American entomology," and James Ross, author of a Latin and a Greek Grammar, and "one of the foremost classical scholars of America."

MARSHALL COLLEGE

A classical institution aiming to give an adequate training to those preparing for the ministry of the German Reformed Church was proposed prior to the year 1829, and in 1831 such a school was started at York, Pa. It was firmly established in 1833 when Dr. F. A. Rauch was placed in charge. In 1835 the name was changed to the "High School of the Reformed Church" and in the fall of the same year was removed to Mercersburg, the little village in the mountains, destined to become famous as the seat of "Mercersburg Theology." On the thirty-first day of March, 1836, the Legislature of Pennsylvania enacted "that the high school of the German Reformed Church, located at Mercersburg, in the county of Franklin, be and hereby is erected

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into a college, for the education of youth in the learned languages, the arts, sciences, and useful literature." It was named after the eminent Chief Justice of the United States, "in testimony of respect for the exalted character, great worth, and high mental attainments of the late John Marshall." While owing its origin to a zeal on the part of a religious denomination, it soon broadened its sphere and enlarged its course to meet the needs and serve the wants of those seeking a liberal education to prepare for the professions of law and medicine or enter a business career. It had a choice coterie of professors, men of large vision and distinguished scholarship. Here it was that Dr. Frederick Augustus Rauch, fresh from the German University and in the full vigor of young manhood, produced his pioneer work on psychology and blended German philosophy with American thought. Here the giant theologian, Dr. John Williamson Nevin, taught and wrote, and by the vigor and richness of his works claimed attention from scholars of Europe as well as America. Associated with them were Dr. Philip Schaff, one of the foremost church historians of this country; Dr. Henry Harbaugh, the versatile poet preacher; the brilliant Dr. E. E. Higbee, who later filled a most successful administration as Superintendent of Public Schools of Pennsylvania; and the distinguished botanist and voluminous writer, Dr. Thomas C. Porter; the learned scientist, Dr. Traill Green; with Dr. William Marvel Nevin in the chair of English Literature. This faculty, worthy of any university, laid broad and deep the foundation of a true college. Their liberal educational views, pro-

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found Christian scholarship and high culture not only moulded students in personal contact, but gave inspiration and enthusiasm to education generally. Marshall College is the main source of the present institution and its history presents ideals which in their simple dignity are worthy of our constant imitation.

FRANKLIN AND MARSHALL COLLEGE

Neither Franklin College nor Marshall College was able to accomplish in full measure the purpose for which it had been established, and both were looking for means to enlarge the scope of their work. As the result of mutual overtures they were united under a new charter, and Marshall College was removed to Lancaster in the spring of 1853, to carry the union into effect. The formal opening took place on June 7, 1853. The charter granted on April 19, 1850, empowers the College to grant "such degrees in the arts and sciences or other useful learning as have been usually granted in other colleges or universities in America or Europe."

Under the successful guidance of efficient presidents the College grew and prospered and furnished a remarkable history which bestows upon this age a rich and glorious heritage. In successive years her faculty and students increased, her campus was enlarged and her course strengthened and enriched. The proper course of historical development and the solidarity of her educational system has been preserved. The broad, liberal spirit which characterized Franklin College and the profound philos-

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ophy and Christian culture peculiar to Marshall College are united in the facilities and purposes of her thorough educational system in preparation for professional and technical training, as for all the duties of life.

The College bases its claim for patronage and support on the advantages which it offers for obtaining a thorough liberal education. The curriculum is adapted to afford training for culture and discipline and aims at thorough instruction, harmonious development and the formation of sound character. The studies are so arranged that the students, in their entire course, come in contact with the regular professors—men of ability, experience, and enthusiasm in their respective departments—and receive in this way not only the highest measure of personal attention, but also the inspiration which the genuine scholar and teacher, by personal influence, always communicates.

The College is under the ownership and general control of a board of trustees, thirty in number, to be held in trust for the Eastern Synod, the Pittsburgh Synod, and the Synod of the Potomac of the Reformed Church in the United States. The Eastern Synod elects twelve, the Pittsburgh Synod three, and the Synod of the Potomac six members of the board for a period of ten years. The other nine are elected by the board, which also has power to fill all vacancies. While the College is under the general care of the Reformed Church in the United States, it imposes no sectarian requirements or restraint upon professors or students. The instruction and government of the students are committed

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to the faculty, whose members are elected by the board of trustees.

LOCATION

The College is located on elevated ground on the northwest side of Lancaster, a city of about 50,000 inhabitants, on the main line of the Pennsylvania railroad, between Philadelphia and Harrisburg. Lancaster is the county seat of "the garden spot of the United States" and the center of a network of electric railways. It has been a college town for a hundred and twenty-five years and has an atmosphere of culture and scholarship and a spirit of friendship and sympathy which is valuable to students of an institution of learning, and favorable to the development of strong, manly character.

CAMPUS

The area of college grounds is fifty-four acres, on which are conveniently grouped ten buildings. The older and original campus possesses large shade trees, with walks and driveways. At the northern end is an enclosed Athletic Field, properly arranged for football, baseball, and track events. The tennis courts are outside of this enclosure. West of the College grounds is the new Buchanan Park of Lancaster City, and on the east, separated by College Avenue, are the buildings of the Theological Seminary of the Reformed Church in the United States.

PRESIDENTS

The following have served as Presidents of Franklin and Marshall College:

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Emmanuel Vogel Gerhart, D.D., LL.D., 1855–66.
John Williamson Nevin, D.D., LL.D., 1866–76.
William Marvel Nevin, A.M., Pro Tem., 1876–77.
Thomas Gilmore Apple, Ph.D., D.D., LL.D., 1877–89.
John Summers Stahr, Ph.D., D.D., LL.D., 1889–1909.
Henry Harbaugh Apple, A.M., D.D., LL.D., 1909—.

BUILDINGS AND EQUIPMENT

All the buildings are in first class condition and adapted for their particular uses. They are heated with steam and lighted by electricity, except the Library, where gas furnishes a softer light for reading.

Recitation Hall—This main building was erected on the campus in 1855. It is substantially built, three stories in height, with a graceful and conspicuous tower, surmounted by four small steeples. This is the center of college sentiment and tradition. It contains seven recitation rooms, the room of the Young Men's Christian Association, and in the rear the large college chapel.

Society Halls—On either side of the recitation hall are two halls owned and used by the Diagnothian and Goethean literary societies. They were erected in 1856–7 and are both alike in arrangement. On the first floor each contains a library and social room, on the second floor a large and beautiful assembly room where the weekly meetings are held. For a short time during the Civil War they were used as hospitals. The two libraries contain over 18,000 well selected books. With one exception these are conceded to be the most valuable college literary society property in the country.

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Gymnasium—The Gymnasium was built in 1890 through the generosity of a number of friends of the college and furnished by the efforts of the undergraduates. It has an ample exercise hall, supplied with apparatus suited to the systematic drill in gymnastics for which it was designed. It is equipped with the appliances for heavy work, such as horizontal and parallel bars, traveling rings, ladders, horse and striking bag. In the basement is the dressing room, supplied with lockers and provided with facilities for shower baths. It is additionally used for evening social functions in which the students are interested.

Library—The Watts de Peyster Library was erected in 1897–98, at a cost of about $36,000, the gift of John Watts de Peyster, LL.D., of Tivoli, New York. It contains about 30,000 volumes, which, together with the libraries of the literary societies, make about 48,000 volumes accessible for the use of the students. It is the most beautiful building on the campus, a brick structure with stone trimmings, and can accommodate 75,000 volumes. The stack room is provided with metallic shelving and all conveniences usual in modern libraries. On the second floor is a reading room, where are kept on file all the best secular and religious papers and magazines of this country, as well as the leading English monthly and quarterly reviews. The following alcoves are endowed: Heine Alcove of German Literature, Buchheit Alcove of Philosophy and Ethics, W. U. Hensel Alcove of American and English Belles-Lettres, Class of 1889 Alcove of Political and Social Science, Diffenderffer

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Alcove of Pennsylvania History and Biography. The Library is a government depository and also receives the state publications.

The Library and Reading Room are open every day in the week from 2 to 5 p. m., and, except Sunday, from 7 to 10 p. m. All persons are free to consult the books and periodicals on the shelves and tables during these hours. Books or periodicals, taken out for use in private, may be kept for ten days, with the privilege of renewing them at the end of that period for another ten days.

Set into the wall, at the entrance, is a tablet of conglomerate marble from General de Peyster's home on the Hudson, bearing the following inscription: "This library is erected as a memorial of John Watts, *vir æquanimitatis*, and of Frederick de Peyster, *vir auctoritatis*, by a grandson and son, who, bearing both names, seeks to continue in their honor the good they did and taught him." In the waiting room are oil paintings of the former presidents of the College.

In front of the building is a statue of Abraham de Peyster, of heroic size, first erected in 1895, in Bowling Green, New York, opposite General de Peyster's ancestral home. It was presented to the College and placed on the campus when the library building was erected. Abraham de Peyster (1651–1728) was prominent in our colonial history and was the great-great-great-grandfather of General de Peyster, who erected the statue and the library building.

Observatory—Mrs. James M. Hood, of Frederick, Md., presented the College with the Daniel Scholl Observatory in 1884, as a memorial to her father,

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Daniel Scholl. She also provided the equipment and gave an endowment of $10,000 for its maintenance. It contains an 11-inch Clark-Repsold equatorial with micrometer and spectroscope, a 3-inch transit instrument by Ertel & Son, a Fauth chronograph, a Seth Thomas precision clock, and a chronometer, together with a set of meteorological instruments, a universal instrument, with 10-inch circles, reading to single seconds, a students' telescope with 4-inch objective by Clark, equatorially mounted, with finding circles and driving clock, a sextant and other instruments available for studying problems of time, longitude, latitude and azimuth.

Through the generosity of Mr. M. T. Garvin, of Lancaster, Pa., the Observatory is also equipped with instruments by which the students are afforded opportunities for field work in engineering and surveying.

It is thus well equipped with all instruments necessary to gain a practical knowledge of astronomy, whether as an independent science, or in its bearings upon geodesy, navigation and surveying.

Science Building—The Science Building is one of the finest of its kind in any college or university. It was built and equipped in 1900–01, at a total cost of $75,000. It is a three-story structure, of light colored brick; the laboratories are separated by fire-proof doors. It contains the Milton S. Hershey Chemical Laboratories, the B. Wolff, Jr., Biological Laboratories, the Physical Laboratories, the Charles F. Rengier Geological Equipment, the George F. Baer Laboratory of Applied Electricity,

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a large museum, lecture rooms for the various departments, professors' studies, a reception room, and the President's and Secretary's Offices.

The apparatus in the Physical Laboratory is used to make demonstrations in the general course of physics. The students make measurements upon physical quantities, so that the hand and eye are trained and the mind accustomed to habits of accuracy in carefully conducted investigation of the law of physics.

Among the instruments in the Laboratory of Applied Electricity are two 5-K.W. rotary converters, one variable speed alternator, a Prony break, a magnetic tester, a modified Fessenden contact maker, and voltmeters, wattmeters, and ammeters, for direct and alternating currents.

The complete outfit of the thoroughly equipped chemical department is the gift of Mr. Milton S. Hershey, of Hershey, Pa. It includes the General Analytical and Private Laboratories with Assay and Balance Rooms.

The family of the late B. Wolff, Jr., of Pittsburgh, Pa., provided the department of Biology in memory of Mr. Wolff. It includes the full equipment of the General Biological Laboratory with all the necessary microscopes and other instruments for each student, as well as special laboratories for physiology, histology, and embryology. These laboratories furnish unusual facilities for students who are preparing for the study of medicine.

The geological equipment consists of a complete set of Sholer-Davis models and photographs illustrating structural and dynamical geology, relief

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maps representing in plaster of paris the physiographical and geological formation of the United States, a well selected collection of fossils for the thorough study of historical geology, and microscopic appliances. With the *Fahnestock* and *Heisler* collection of minerals, these afford exceptional opportunity for the study of geology.

The Herbarium includes the valuable collection of plants by the late A. P. Garber, M.D. This collection of phænogams and vascular cryptogams is accessible for reference and botanical work.

By an arrangement effected between the Linnæan Scientific and Historical Society of Lancaster and the Trustees of Franklin and Marshall College, the Linnæan Society has removed its Museum and Cabinet to the College Building. In consequence of this removal, the College has the benefit and use of a very valuable collection of specimens in the different departments of Natural Science. It includes:

1. A complete skeleton of the *Dionoris giganteus*, of New Zealand, presented by Mr. J. M. Mays, of Philadelphia.

2. The collection of Coleoptera, made by the late Professor S. S. Rathvon, of Lancaster, presented to the College by Dr. Henry Bobb, in memory of his son, Eugene H. Bobb, A.M.

3. The extensive collection of terrestrial shells, made by Rev. Dr. A. B. Kendig, of Brookline, Mass., purchased and presented to the College by Miss E. E. Smith, of Lancaster, Pa., to be called the A. B. Kendig collection.

4. The valuable ornithological collection of Dr. M. W. Raub, consisting of excellent mounted speci-

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mens of birds, including nearly all the birds of Pennsylvania.

5. Fine mounted specimens of the moose, deer heads, etc., by Mr. A. C. Kepler and Dr. S. T. Davis.

6. A valuable collection of Indian implements and relics, presented by the Rev. Ellis N. Kremer, D.D.

7. A large number of Lepidoptera and Coleoptera, presented by Dr. M. W. Raub.

8. A valuable collection of eggs of birds native to Lancaster county, by Prof. H. H. Beck.

9. The Fahnestock and Heisler collection of minerals has been carefully classified and arranged by Prof. Beck, in a large number of cases for the different sections of the museum, so as to make this department of great value in the service of scientific study.

Academy Buildings—Two buildings are used by the Academy. The main building was completed in 1908 at a cost of about $100,000. It is 215 feet long, has two wings, 40x75 feet, and a chapel seating 350 boys.

GENERAL INFORMATION

RELIGIOUS OBSERVANCES

The students are confronted with the claims of Christianity in its most concrete and living form. A large proportion of the students are communicant members of the Church and a Christian spirit underlies and animates the instruction in the different departments.

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Church Services—There is a regularly organized Christian congregation in the institution (St. Stephen's Reformed Church), the members of which are the students, the professors and their families, together with some families in the vicinity not directly connected with the College. The clerical members of the faculties serve as pastors, while the other officers are selected from the members of the congregation. A regular service is held in the College Chapel Sunday morning at 10:30 o'clock during the college year and every Wednesday afternoon in Lent, and the Sacrament of the Lord's Supper is observed four times a year.

All students are required to attend the Sunday service except the sons of parents who reside in Lancaster, or who belong to denominations other than that of the Reformed Church in the United States. To such persons permission is given to attend churches of their choice at the *special or written request of their parents or guardians, renewed each year.*

Morning Prayers—All students are required to attend a service each morning of the week, except Saturday, in the College Chapel, conducted by the President.

COLLEGE ORGANIZATIONS

All student activities are regulated by a governing body known as the "College Senate," composed of twelve upper-classmen, selected by their fellow students. The Senate has instituted the "Honor System" in examinations and tests and any student found guilty of violation of the rules will be im-

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mediately dropped from the College roll. A Board of Governors consisting of three competent men appointed by the President of the College is advisory in athletic affairs and a "Board of Control," made up of five members of the Board of Trustees, three from the Faculty, and four undergraduates (one student elected by each of the four classes), exercises the same power in financial operations of non-athletic activities.

Young Men's Christian Association—The College has a Young Men's Christian Association which is devoted to the sustaining and extension of religious life among the students. Religious meetings are held once a month, when topics of vital importance and great interest to students are discussed. Classes are formed for the study of the Bible and missions. Several classes in English and Civics for foreigners are conducted in shop meetings in the city. The association seeks to be of practical benefit to the development of Christian character and to render service to the students. It publishes at the beginning of each college year a Students' Hand Book, containing a map of Lancaster and useful information concerning the work and activities of the College.

Literary Societies—Two literary societies, Diagnothian and Goethean, are maintained by the students, who own their society halls, which are beautifully furnished. Each society meets every Friday evening of the collegiate year. Membership is not compulsory, but is desired and encouraged by the faculty. These societies have had a flourishing existence for more than seventy-five years and are

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of great value for the intellectual development of the student. They maintain and publish the *College Student* as their literary organ.

Society membership is one of the qualifications for those who compete for various prizes offered by the College, as well as for admission to the Phi Beta Kappa graduate fraternity.

The Thomas C. Porter Scientific Society meets fortnightly and affords opportunity for the cultivation of interest and research in scientific studies. Several members of the faculty direct its operations.

Nevin Club—This organization is named after the great theologian, Dr. John Williamson Nevin, a former president of Franklin and Marshall College, and is composed of students who intend to study for the ministry. It affords opportunity for association of those having a common aim in college work and is a constant appeal to all students for recognition of the claims of the service of the Christian ministry.

Fraternities—Four national Greek Letter Fraternities have chapters and live in their own houses. These organizations work for the best interests of the College and take a prominent part in all its activities.

Phi Beta Kappa—The college has a chapter in the Phi Beta Kappa fraternity, to whose membership honor men of each graduating class are elected. Membership for two years in one of the Literary Societies of the College is a requisite for election to the Society. The Phi Beta Kappa fraternity was founded in 1776. Its object is the recognition of high character and thorough scholarship. There

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are at present eighty-six chapters of this society in the universities and colleges in the United States and Canada. The Theta Chapter of Pennsylvania was established at Franklin and Marshall College in 1908. Under its auspices each commencement week an address is delivered by some distinguished scholar.

Social Clubs—There are a number of local boarding clubs of a social and fraternal nature.

Musical Clubs—The Glee and Mandolin Clubs render concerts at various places during the winter and spring months.

Dramatic Club—The Green Room Club presents a play each year in Fulton Opera House in Lancaster. All students are eligible to membership. Selection is made by trial.

Civic Club—The Civic Club is organized for the study of civic problems. Membership is limited to those who are willing to do personal research work. Under their auspices several lectures on civic problems are given each year.

Press Club—The object of this club is to afford actual work in correspondence with daily papers in the state.

ATHLETICS

Ample facilities are afforded for athletic purposes, and all proper encouragement is given for the maintenance of athletic sports. Athletic matters are in the hands of the Athletic Association, to which all students belong. A Board of Governors appointed each year has supervision of all athletics. The college is a member of "The National Athletic As-

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sociation of the United States." A graded course of physical training, under a competent instructor, is required in the Freshman and Sophomore years. A thorough physical examination is required and care is given to those who participate in athletic contests.

PUBLICATIONS

The College Student, founded in 1879, is published monthly during the college year under the auspices of the Diagnothian and Goethean Literary Societies. It is devoted to the development of literary activity among the students. A prize is offered each year to the student who contributes the best original piece of fiction.

The F. and M. Weekly reports the news of college work and life and aims to mould proper college spirit.

The Oriflamme is the college annual published by the Junior Class. It is illustrated and intended to present a summary of student life during the current scholastic year.

The College Calendar is issued by the Sophomore Class.

The Nevonian is an annual published by the Senior Class containing the program and addresses of Class-Day.

The Obituary Record contains sketches of all alumni who died during the year and is printed annually by the Alumni Association.

The Student's Hand Book contains information especially valuable to new students. It is compiled by the Young Men's Christian Association.

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The Catalogue is issued annually and gives information about the College as a whole and the register of students.

ALUMNI ASSOCIATIONS

The Alumni of the College have an association, the object of which is to keep alive the sentiment of affection for their Alma Mater, and to unite the graduates of successive years by a common tie of fellowship. Its meetings are held annually during commencement week. Various district alumni associations maintain organization by holding at least one meeting each year and tend to keep up and give practical shape to the interest felt by the alumni in the well-being of the College.

DEGREES

The College confers the degrees of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science upon graduation on those who satisfactorily complete the full courses of study as outlined in the catalogue.

ADVANCED DEGREES

The degree of Master of Arts is conferred upon those who have received the degree of Bachelor of Arts from a reputable college and who have satisfactorily completed a prescribed course of study according to the general regulations governing graduate study. The degrees of Master of Philosophy and Master of Science are similarly conferred upon the holders of the corresponding bachelor's

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degrees. These graduate courses may be pursued either in residence or *in absentia* subject to the regulation that scientific courses can be pursued *in absentia* only where the student has access to laboratory or observatory.

Further particulars may be obtained by application to Prof. A. V. Hiester, Registrar of Graduate Courses.

COLLEGIATE YEAR

The collegiate year consists of two semesters. The first begins thirteen weeks after the Annual Commencement and continues until the last week in January, including the Christmas recess of two weeks; the second begins immediately after the close of the first and continues until Commencement, the second Thursday in June.

REPORTS

At the end of each semester the grade of each student in each course taken by him is recorded by the secretary. A report of his standing is then transmitted to his parent or guardian.

EXPENSES

There is no charge for tuition.

Each student is charged a contingent fee of one hundred dollars. This fee covers all general college expenses, the care of buildings, heating and lighting, use of library and reading room, athletic grounds, gymnasium, physical training and admission to all athletic contests on Williamson Field. Seven dol-

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lars and a half of this fee goes to the fund under the control of the student athletic association. The contingent fee of students entering late is fixed at the full rate for a period longer than half the semester and at the half rate for a period less than half the semester.

In scientific and laboratory work, which involve the use of apparatus and materials, charges are made to cover the cost, to those students taking the various courses. In the Chemical laboratories the fee is based on the apparatus used and the chemicals consumed, and to cover the expense of breakage, ranging from ten to twenty dollars. Unexpended balances are returned at the end of the year. The fee in the Physical laboratory is five dollars a year. For the use of a microscope in the Biological department, there is required a deposit of five dollars, to be returned at the end of a year if the instrument is exchanged in good condition.

A graduation fee of five dollars is charged to each student taking the Bachelor's degree.

A fee of one hundred dollars (which includes also the diploma fee) is charged for registration and examination in the resident post graduate course leading to the Master's degree; the fee is fifty dollars for non-resident students.

PAYMENTS

The contingent fee is payable as follows: five dollars on registration, fifty dollars for the first semester and forty-five for the second, within ten days from the beginning of each. An additional fee

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of one dollar is charged those who fail to register at the time specified. Any student failing to make payment within the required time, unless specifically excused, will suffer the loss of college privileges and notice of such delinquency will be sent to parents or guardians. All laboratory fees must be paid before a student is allowed to enter upon the course.

The graduation fee is payable on or before the first of April in the Senior year.

For post graduate courses, one-half of the fee must be paid when the registration is made and the balance not later than the first day of April preceding the conferring of the degree.

No student can receive a degree or honorable dismissal whose college bills are unpaid.

Board and room are not furnished by the college. Good furnished rooms in private dwelling houses can be secured for $2.00 to $2.50 a week and may be occupied by two students, thus dividing the expense. The price of board is $3.50 a week. At this moderate estimate the cost for board and room for 37 weeks is $166.50.

With careful buying books will cost from $12.00 to $15.00 a year.

The student's personal expenses are determined largely by his habits and tastes and are limited by his power of self control.

Some money for literary societies and other incidental expenses will be needed, but with close economy, the total annual expenses—exclusive of clothing, and traveling expenses—need not exceed $325.

Parents and guardians may deposit funds with some member of the faculty who will give particular attention to the expenditure of money by the stu-

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dent. It is strongly recommended that parents furnish their sons with little beyond what will meet their necessary needs.

ANNUAL PRIZES

A gold medal is awarded to the member of the Senior Class who passes the most satisfactory examination in the German language. This prize has been permanently endowed by R. K. Buehrle, Ph. D., former Superintendent of Public Schools of Lancaster City.

A gold medal is given to the member of the Junior Class who is successful in competition at the Junior Oratorical Contest. This is called the Wetzel Oratorical Prize and has been endowed by J. W. Wetzel, Esq., Carlisle, Pa.

William H. Keller, Esq., of Lancaster City, has offered an annual prize of twenty-five dollars to be awarded at the end of the Sophomore year to the student who has made the best record in the study of Latin and Greek during the Freshman and Sophomore years.

Prof. H. E. Slagen, A.M., of Lancaster City, offers an annual prize of ten dollars to members of the Junior Class for proficiency in Greek.

There are two prizes offered by both the Diagnothian and Goethean Literary Societies in an oratorical contest for members of the Sophomore and Freshman classes.

Mr. Jack L. Straub and Mr. Charles F. Miller, of Lancaster, each provided a one hundred dollar scholarship to an advanced student in biology, to

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be designated by the professor of that department, for special vacation work at one of the marine biological laboratories.

REQUIREMENTS FOR ADMISSION

Students are admitted by certificate and on examination. In all cases they must present satisfactory testimonials of good moral character, and, if from other colleges, evidences of honorable dismissal.

It is desired that all applications be filed as early as possible.

Applications for admission to advanced standing in the college will not be received later than the opening of the Senior year.

CERTIFICATES

Students are received by certificate from approved schools and academies whose course of study fully covers the requirements for admission. The certificates must state the text-books used in preparation, and the exact amount of work done in each study, as specified in the blank forms furnished by the College and sent to the College direct from the principal of the preparatory school.

Certificates of the College Entrance Examination Board will be accepted.

EXAMINATIONS

Examinations for admission are held during commencement week and the week of the opening of

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the college year. Students applying for admission to advanced classes will be examined on both the preparatory work for entrance to college and on the studies previously pursued by the classes they propose to enter.

ADVANCED STANDING

No student will be admitted to advanced standing later than the beginning of the Senior year. Students who come from another college must present full credentials for both college and preparatory work and a letter of honorable dismissal, to receive credit for an equivalent amount upon the records of the College. Others will be received at the discretion of the Committee on Admission or by examinations held only at the College.

SPECIAL COURSES

Students, not candidates for degrees, may be permitted to pursue special courses, for proficiency in which certificates may be granted; but this permission will be granted only to students of ability and character sufficient to insure their success. They may become regular students by completing all the work required in the number of courses for full standing in any year.

SUBJECTS FOR ADMISSION

For admission without condition the candidate must secure credit for 14½ units, a unit representing a year's work in a secondary school with four or five periods a week.

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A.B. DEGREE—Candidates for the A.B. degree must present Latin, 4 units, English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, History, 1 unit, making a total of 10½ units. The remaining units to make up a total of 14½ may be selected from any of those specified below, including 2 units in either Greek or German.

PH.B. DEGREE—Candidates for the Ph.B. degree must present Latin, 4 units, English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, Advanced Algebra, ½ unit, History, 1 unit, making a total of 11 units. The remaining units to make up a total of 14½ may be selected from any of those specified below, including 1 unit of Science and 2 units of German or French.

B.S. DEGREE—Candidates for the B.S. degree must present English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, Advanced Algebra, ½ unit, Elementary Science, 1 unit, History, 1 unit, making a total of 8 units. The remaining units to make up a total of 14½ may be selected from any of those specified below, including 4 units in foreign languages, of which 2 must be in German or French.

SCALE OF VALUES

	UNITS.
English,	3
Latin, 2 years	2
3d year,	1
4th year,	1
Greek, 1 year	1
2d year,	1
German, Elementary, 2 years,	2
French, Elementary, 2 years,	2

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History—Ancient,	1
Mediæval and Modern,	1
English,	1
American or Civil Government,	1
Mathematics—Elementary Algebra,	1½
Plane Geometry,	1
Solid Geometry,	½
Advanced Algebra,	½
Plane Trigonometry,	½
Physics, Theoretical and Practical,	1
Chemistry, Theoretical and Practical,	1
Biology or Botany,	1
Physical Geography,	1

ENTRANCE EXAMINATION REQUIREMENTS

ENGLISH.

The requirements in English are those adopted by the Association of College and Preparatory Schools in the Middle States and Maryland.

Preparation in English has two main objects; (1) command of correct and clear English, spoken and written; (2) ability to read with intelligence and appreciation. The candidate will be required to present evidence of a general knowledge of the subject matter, and to answer simple questions on the lives of the authors as specified below. The form of examination will be the writing of a paragraph or two on each of several topics to be chosen by the candidate from a considerable number set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. The essentials of English

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Grammar are presupposed, and no candidate will be accepted whose work is notably deficient in point of spelling, punctuation, idiom or division into paragraphs.

For 1915—Shakespeare's *As You Like It* and *Julius Cæsar;* Franklin's *Autobiography;* Goldsmith's *The Deserted Village;* Scott's *Ivanhoe;* Irving's *Sketch Book;* Lamb's *Essays of Elia;* Scott's *The Lady of the Lake;* Longfellow's *The Courtship of Miles Standish.*

For 1916—Shakespeare's *As You Like It* and *Julius Cæsar;* The *Sir Roger de Coverley Papers* in the Spectator; Goldsmith's *Deserted Village;* Dickens's *Tale of Two Cities;* George Eliot's *Silas Marner;* Irving's *Sketch Book;* Scott's *Lady of the Lake;* Macaulay's *Lays of Ancient Rome;* Longfellow's *The Courtship of Miles Standish.*

LATIN.

Cæsar, The Gallic War, Books I–IV. *Cicero,* six orations (orations against Catiline, for the Manilian Law and for Archias). *Vergil,* six books of the Aeneid. Simple exercises in Latin prose composition.

The chief aim of the examination will be to test the candidate's knowledge of the subject matter, vocabulary, grammatical forms and constructions. This will also be expected from the showing of certificates of admission.

GREEK.

First Greek Book. *Xenophon,* Anabasis, books I–IV. Fifty Exercises in elementary prose composition.

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GERMAN.

Such knowledge of the language is required as will indicate a thorough acquaintance with the grammar and as may be obtained by the reading of at least 200 pages. The examination covers the translation at sight into English of easy passages of German, elementary grammatical questions and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

MATHEMATICS.

Algebra—To Quadratics. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

Quadratic equations, both numerical and literal. Simple cases of equations, with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the nth term and the sum of the terms of arithmetical and geometrical progressions, with applications. (Well's University Algebra to Section XXXI,

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or Robinson's University Algebra to Chapter VI.)

Advanced Algebra—Progressions, permutations and combinations, binomial theorem, series, logarithms, to theory of equations.

Plane Geometry—The usual theorems and constructions of good text books, including the general properties of plane rectilinear figures, the circle and measurement of angles, similar polygons, areas, regular polygons, and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces. (Wentworth's five books.)

Solid Geometry—The usual theorems and constructions of good text books, including the relations of planes and lines in space; the properties and measurements of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of surfaces and solids. (Wentworth's Solid Geometry.)

HISTORY.

(*a*) *Ancient History*, with special reference to Greek and Roman history, including also a short introductory study of the more ancient nations and the chief events of the early Middle Ages down to the death of Charlemagne (814).

(*b*) *Mediæval and Modern History*, from the death of Charlemagne (814) to the present time.

(*c*) *English History*.

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(*d*) *American History or Civil Government.*

Candidates for admission will be given credit for not more than two units in History.

SCIENCE.

Elementary Physics—A careful study of a standard text book for high schools and academies, for the purpose of obtaining a connected and comprehensive view of the subject, covering mechanics, sound, heat, light, and electricity. About thirty individual experiments in the laboratory.

Elementary Chemistry—A course of at least sixty experiments performed by the pupil and accompanied by systematic instruction in the common elements and their compounds, including chemical equations, the simple gas laws, and the fundamental atomic and molecular theories.

Zoology—A course covering the work of one year, including the dissection of types of the most important groups of the animal kingdom, and a study of the principles of the morphology, physiology, and the classification of animals.

Botany—The applicant will be expected to have a fairly definite knowledge of the seed and seedling, root, stem, and leaf, the flower and fruit, the cell, and to know something about physiological processes, ecology, and the natural history or classification of plants.

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COURSES OF INSTRUCTION

General Statement

Franklin and Marshall College aims to offer to the student an opportunity to secure such general culture as may tend to develop him into a useful citizen without preparing him for any special profession, to enlarge his scholarship, broaden his views, and arouse an intelligent interest in all that is best in modern civilization. The course is based upon such intellectual discipline as has been established by centuries of testing as well as by channels opened up by modern scholarship whose value has been proved equal to that of any agencies employed in the past. Choice of electives is given to the student under such restriction as to secure reasonable breadth for the foundation on which his education is to be built. The elective studies become increasingly important as the student advances and may be so chosen as either to extend further his training in the higher branches of learning or fit him more particularly for the pursuit of some special vocation.

The College offers three general courses of study leading to the three degrees of A.B., Ph.B., and B.S. Each of these courses occupies four years, and the year consists of two semesters. These courses are intended to meet the requirements of a liberal education as a preparation for the duties of citizenship and to lay a broad foundation for the

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pursuit of advanced studies whether literary, scientific or technical. They are also designed to furnish a broad preliminary training for the professions of theology, law, medicine, teaching and journalism. A certain amount of work in subjects of a literary, philosophic and scientific character is required in all, both on account of their cultural value and as desirable preliminaries of all higher study whatever career or profession may be chosen.

The A.B. course requires the pursuit of the ancient languages, Latin and Greek, for two years, and one of them for one year more. An exception in this requirement is made in the case of students who begin Greek in college and who are required to take four years of Greek. The A.B. course includes also four years of modern languages, leaving room for choice between German and French.

The Ph.B. course includes two years of Latin with three years of German and two years of French. In science study, this course is resolved into three different groups: viz., (1) one year of chemistry and three years of biology; (2) one year of biology and three years of chemistry; (3) one year of biology and one year of chemistry, with either calculus and advanced analytical geometry or applied electricity and physical measurements.

The B.S. course includes two years of German and French, and one of them for one year more. The course is resolved into two groups, allowing choice in biology or chemistry.

The minimum number of hours of recitation or lectures required in each class is, Freshman, 17; Sophomore, 17; Junior, 16; Senior, 15. No student

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shall be permitted to take more than the minimum except by special permission, and no student shall be allowed in any case to take more than 21 hours, including conditions and substitutions. No substitute may be taken for a required study except upon consent of the professor concerned and upon formal action of the faculty. Two hours of laboratory work count as one hour of recitation, except in Biology, where the value of laboratory hours is indicated under each course. Physical exercise is compulsory in the Freshman and Sophomore classes in addition to the above requirements.

ASTRONOMY

PROFESSOR APPLE

The Daniel Scholl Observatory with its thorough equipment and library affords students the means of becoming familiar with the use of astronomical instruments and of acquiring from actual observation a practical acquaintance with astronomy.

(*a*) PRACTICAL ASTRONOMY, with work in the Observatory on the problems of time, latitude, longitude and azimuth. Text: Doolittle. Also method of least squares. Elective for those taking Mathematics (*g*). Two hours a week; first semester.

(*b*) A continuation of Course *a* with advanced work in the Observatory. Two hours a week; second semester.

(*c*) GENERAL ASTRONOMY. Text: Young. Junior and Senior elective to those who have had plane and spherical trigonometry and elements of physics. Three hours a week; second semester.

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BIBLE

PROFESSOR KLEIN

The study of the English Bible is based on the conviction that a knowledge of its historical facts, literary forms, modes of thought, and above all, of its ethical and religious teachings, is an essential element of all true culture. The work extends over two years, one hour a week, and is required of all students unless excused for conscientious reasons.

(*a*) THE ACTS OF THE APOSTLES AND THE EPISTLES. Juniors.

(*b*) OLD TESTAMENT HISTORY. Seniors.

BIOLOGY

PROFESSOR SCHIEDT

The study of biology is of prime importance in a modern curriculum of liberal culture. Its aim is: (1) To present from a scientific standpoint the main facts relating to form, function and relationship of the best types of plants and animals; (2) to bring the student face to face with the modern methods of biological investigation both in the laboratory and in nature; (3) to enable the student who takes the full course to properly grasp the trend of modern thought that has grown out of these investigations and has influenced all departments of life and learning, especially that of philosophy and pedagogy; (4) to pay particular attention to the preparation of young men for the higher requirements of university courses in Biology, Forestry and Medicine.

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To students who want to prepare for any branch of Economic Zoölogy the museum is open with its library and collections. The curator offers special instructions to any one desiring such.

(*a*) GENERAL BIOLOGY—An introductory course for beginners, including the study of the mechanism and use of the microscope, of plant and animal protoplasm, of the cell and its functions, and of a few more complex types of plants and animals together with lectures on the history of the Science. Text: Conn's General Biology. Freshman B.S. (Biological group), Sophomore B.S. (Chemistry group), and A.B. requirement. One hour recitation and four hours laboratory a week throughout the year. Two hours credit.

(*b*) INVERTEBRATE MORPHOLOGY—Consists of introductory lectures, study of microscope, gross and microscopic dissection of about twenty types of invertebrates, and lectures and text-book studies on classification, habitat, and phylogeny of the lower animals. Texts: Hegner's Zoology. Sophomore Ph.B. and B.S. (Biological group), requirement. One hour recitation and four hours laboratory a week; first semester and part of second. Two hours credit.

(*c*) VERTEBRATE ZOOLOGY—Consists of lectures on the comparative organography of the vertebrates, special study of primitive vertebrates and the dissection of dog-fish, frog, pigeon and cat. Texts: Comparative Anatomy of the Vertebrates, Kingsley. Reference books: Parker and Haswell larger edition, Cambridge Natural History, Wiedersheim, etc. Junior B.S., Ph.B. (Biological group)

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requirement; elective to others. One hour recitation and four hours laboratory a week throughout the year. Two hours credit.

(*d*) VERTEBRATE HISTOLOGY—Texts: Piersol, Dahlgren and Kepner, Lewis and Stoehr; with lectures. Junior B.S. (Biological group) requirement; elective to others. Four hours a week, lecture and laboratory, throughout the year. Two hours credit.

(*e*) ANIMAL PHYSIOLOGY—An introductory course consisting of experiments in the physiology of muscle and nerve, of circulation, of respiration and of optics, followed by some essential experiments on the income of energy or physiological chemistry. Texts: Porter's Introduction and the American Text-book on Physiology with other references. Senior elective; required for B.S., Ph.B. (Biological group). Four hours a week throughout the year. Two hours credit.

(*f*) VERTEBRATE HISTOLOGY—A continuation of Course *d*. Senior elective. Required for B.S. (Biological group). Four hours a week; first semester. Two hours credit.

(*g*) EMBRYOLOGY—A course of lectures accompanied by laboratory demonstrations and practical individual work. Text: Kellicott's General Embryology, Lillies's Embryology of the Chick. Senior elective. Required for B.S. (Biological group). Four hours a week lecture and laboratory; second semester. Two hours credit.

All the foregoing courses include extensive drawings and the presentation of note books. The laboratory periods are generally unlimited.

(*h*) GENERAL PLANT MORPHOLOGY—Consists of

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introductory lectures and of laboratory and field work on the most common types of Thallophytes, Bryophytes, Pteridophytes, and Spermatophytes. Text: Coulter's Morphology. Gray's New Manual. Sophomore Ph.B. and B.S. (Biological group) requirement. One hour recitation and four hours laboratory with field work; latter half of second semester. Two hours credit.

(*i*) SYSTEMATIC AND STRUCTURAL BOTANY—Collection and study of 250 plants required. Texts: Sargent's Plants and Their Uses; Coulter, Barnes and Cowles's Text-book of Botany, Vol. I.; Brown and Britton, Gray's New Manual, DuBarry, Stevens's Plant Anatomy, and Chamberlain's Methods of Plant Histology. Junior B.S. (Biological group) requirement; elective to others. Four hours a week throughout the year, with laboratory and field work. Two hours credit.

(*j*) PHYSIOLOGY AND ECOLOGY OF PLANTS—Designed for the needs of forestry students. Text: Coulter, Barnes and Cowles's Text-book of Botany, Vol. II., Clement's Ecology and Physiology, also MacDougal and Ganong. Senior elective. Required in B.S. (Biological group). Two hours of lecture and recitation a week throughout the year. Weekly experiments in the environment and physiological laboratory; time not limited. Two hours credit.

(*k*) BACTERIOLOGY—Comprises manipulation of apparatus and study of essential methods of sterilization, incubation, staining, etc., classification. Texts: Jordan's General Bacteriology, Heineman's Laboratory Directions. Senior elective. B.S. re-

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quirement. One hour of lectures and recitations and eight to ten hours laboratory a week throughout the year. One hour credit.

CHEMISTRY

PROFESSOR BECK

The department of Chemistry offers a course leading to the degree of B.S. in chemistry. To applicants for the degree of Ph.B. and B.S. in Biology all or part of the branches of the longer course in chemistry are available, with the laboratory requirements of the latter somewhat abridged. The work is planned to cultivate scientific spirit and habit, to instill modern methods of pure and applied chemistry and to teach correct laboratory manipulation. With these purposes in view, the student is instructed in the theory of general analytical and organic chemistry with related subjects and is required to spend a large part of his time in the laboratory. The graduate is in a position to take up any branch of chemistry intelligently and specialize on it, or the course fits him admirably for further work in medicine or other allied sciences.

To the A.B. student one year of general chemistry is given with an optional year of qualitative analysis. The object of this shorter course is to point out the chemical relations of common life and the world about us and add practical information and an element of scientific training to a broad college course.

(*a*) GENERAL INORGANIC CHEMISTRY—Lectures (with experiments) and recitations. The non-

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metals, metals and their compounds. Laboratory work. Text-book: Inorganic chemistry for colleges, Newell. Required of Freshman B.S. (Chemistry group), Junior A.B. and Sophomore Ph.B. and B.S. (Biological group). Three hours a week throughout the year.

(*b*) QUALITATIVE ANALYSIS—Qualitative separations of the metals and analysis of natural and artificial products. Chemical Philosophy and Stoichiometry (to accompany Qualitative Course). Laboratory work, lectures, and recitations. Text-books: Baskerville and Curtman's, Prescott and Johnson's works on the subject; also Chemical Calculations. Senior elective for A.B. students. Required of Sophomore B. S. (Chemistry group) and Junior B. S. (Biological group) and for those Ph. B. students who take their major work in the sciences in chemistry; elective for all others. Five hours a week throughout the year for B. S. (Chemistry group) and four hours for all others; three hours for the elective.

(*c*) QUANTITATIVE ANALYSIS—Volumetric and gravimetric analysis of chemical compounds, ores, fertilizers, etc. Laboratory and lectures. Text-books: Talbot and Fresenius, supplemented with the methods of chemists who are specialists on particular determinations. Junior B.S. (Chemistry group) requirement; elective for all others. Eight hours a week throughout the year for the required course and four hours for the elective.

(*d*) ADVANCED QUANTITATIVE ANALYSIS—A continuation of Course *c* with special determinations. Senior B.S. (Chemistry group) requirement, elective for others. Three hours a week throughout the year.

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(*e*) BLOWPIPE ANALYSIS—An elementary course in qualitative analysis in the dry way. The chief aim of this course is to assist in the identification of minerals. Lectures and laboratory. Reference book: Blowpipe Analysis by Lewis. Senior B.S. (Chemistry group) requirement; elective for others. One hour a week; first semester.

(*f*) MINERALOGY—Elementary course in physical, chemical and descriptive mineralogy. Laboratory: Practical exercises in determination of the more common mineral species. Text-book: Dana's Mineralogy. Senior B.S. (Chemistry group) requirement; elective for others. One hour a week; first semester.

(*g*) ASSAYING—Furnace assay of gold, silver, lead ores, etc. Laboratory. Text-book: Rickett and Miller's Notes on Assaying. Senior B.S. (Chemistry group) requirement; elective for others. Two hours a week; second semester.

(*h*) ORGANIC CHEMISTRY—Lectures, recitations on the chemistry of the typical compounds of carbon. Laboratory work. Determination of specific gravities, melting, and boiling points, vapor densities. General organic analysis. Preparation of organic compounds, examination of foodstuffs. Text-book: Remsen's Introduction to the Study of the Carbon Compounds. Reference: Richter's Organic Chemistry (translated by Smith). Senior B.S. (Chemistry group) requirement; elective for others. Three hours a week throughout the year.

Special courses, for men intending to enter upon any particular line of chemical work, can be planned by consultation with the professor in charge.

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ECONOMICS

PROFESSOR HIESTER

(*a*) GENERAL ECONOMICS—An introductory course designed for the needs of the general student and embracing, in addition to a comprehensive study of the principles underlying the production, exchange, distribution and consumption of wealth, a rapid survey of the evolution of economic society, and a brief history of economic thought. Bullock's Introduction to the Study of Economics. Two hours a week throughout the year. Junior A.B. and Ph.B. requirement.

(*b*) MONEY AND BANKING—A critical examination of the problems presented by modern banking and monetary systems, the nature and functions of money, primary and secondary standards of values, prices and credit, domestic and foreign exchange, bank, currency, the various systems of commercial banking, the theory and history of bi-metallism. White's Money and Banking. Two hours a week; first semester. Senior elective.

(*c*) PUBLIC FINANCE—A systematic study of the financial problems of the modern state, the forms of public expenditure, the character and classification of public revenues, the various kinds of taxes, the justification and incidence of taxation, the nature of public credit, the forms of public indebtedness and the principles of financial administration. Plehn's Introduction to Public Finance. Two hours a week; second semester. Senior elective.

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ENGLISH

PROF. GROSE PROF. DEGRANGE

In the course outlined below, the department of English has in view these objects: (1) the power to write clear and accurate English; (2) the love of good reading; (3) a general knowledge of the history of English literature; (4) a close acquaintance with a few great writers.

(*a*) COMPOSITION—A course in the art of writing English. Especial attention is given to the technique of composition. The outline, the paragraph, the sentence and the word are studied in detail; and the composition as a whole is then taken up under the heads of Exposition, Argumentation, Description and Narration. Freshman requirement. Two hours a week throughout the year.

(*b*) HISTORY OF ENGLISH LITERATURE—An outline course in the rise and development of English Literature. Lectures on authors and periods; recitations on assigned reading. The text-book is Newcomer and Andrews's *Twelve Centuries of English Poetry and Prose.* Sophomore requirement. Two hours a week throughout the year.

(*c*) SHAKESPEARE—Reading of most of the plays; critical and historical study of the more important. Shakespeare in relation to the drama of his own day and of later days. For reference, each student is required to own a copy of the *Globe* edition of the plays. Junior A.B. and Ph.B. requirement. Two hours a week throughout the year.

(*d*) MODERN ENGLISH POETRY—This course includes the leading poets of the Romantic and Victorian periods. The text-book is Page's *British*

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Poets of the Nineteenth Century. Senior A.B. and Ph.B. requirement. Two hours a week throughout the year.

(*e*) MODERN ENGLISH PROSE—Careful study of Carlyle's *Sartor Resartus.* Rapid reading of several important novels and essays. Senior elective. Two hours a week; first semester.

(*f*) MILTON—The course is a study in the understanding and appreciation of poetry and of a great personality. The text used is the *Oxford* edition. Senior elective. Two hours a week; second semester.

FRENCH

PROF. DIPPELL PROF. DEGRANGE

It is the aim of the course in French to give to the student an accurate knowledge of the language of the present time both as written and spoken, an appreciation of the more important masterpieces of the literature proportionate to the knowledge of the language, and a knowledge of the historical development of the literature.

(*a*) FIRST YEAR FRENCH—Drill in the fundamentals of the language. Pronunciation, dictation, and translation from English into French. Simple syntax and composition. Reading of some simple modern text. Freshman Ph.B. and B.S. requirement; Freshman and Junior A.B. elective. Two hours a week throughout the year.

(*b*) SECOND YEAR FRENCH—Grammar, composition, and advanced syntax. Reading of several French texts. Sophomore Ph.B. and B.S. require-

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ment; Sophomore and Senior A.B. elective. Two hours a week throughout the year.

(*c*) FRENCH PROSE AND POETRY—Selections from such authors as Corneille, Racine, Moliere, Victor Hugo, Balzac, etc., are read. Open only to students who have successfully completed Courses *a* and *b*.

GERMAN

PROFESSOR DIPPELL

The first two years of study are devoted to the acquirement of a working knowledge of the language itself, while the higher courses emphasize the study of the literature. Drill in pronunciation and the careful study of grammar begin the course, and the translation of easy texts is taken up as early as possible, thus laying the foundation for a working vocabulary. The work is progressively arranged throughout the course, grammar study leading up to syntax and advanced composition, while modern texts are followed by the works of the great writers of the eighteenth century, and instruction in special topics is given, ending in a general view of the literature.

The foreign language is used in the class-room as far as practicable, and an effort is made to train the student to express himself correctly in simple language, although it is realized that the ability to speak a modern language freely requires far more practice than can be had in a brief college course.

(*a*) COURSE FOR BEGINNERS—Pronunciation, composition, and dictation. Students are thoroughly

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drilled in the fundamentals of the language—declensions, conjugations, and simple syntax. Some easy text is read near the close of the second semester. Freshman requirement for those who do not offer German for entrance. Two hours a week throughout the year.

(*b*) ADVANCED FRESHMAN GERMAN—Grammar, composition, and translation. For those Freshmen who have passed the entrance requirements in German. Two hours a week throughout the year.

(*c*) SOPHOMORE GERMAN—Reading and translation of modern German texts. Specific drill in pronunciation, syntax, and composition. Required study. Two hours a week throughout the year.

(*d*) ADVANCED SOPHOMORE GERMAN—Advanced composition and grammar drill. Texts read in this course are more difficult in language and construction, corresponding to such as are generally read in the fourth year. Required study for Sophomore Ph.B. and B.S. Open only to students who have successfully completed course *b*. Two hours a week throughout the year.

(*e*) JUNIOR GERMAN—Reading of a play of Schiller, special endeavor being made to get the German point of view in the drama read. A play of Lessing or one of Goethe's works is read. Advanced prose composition. Ph.B. and B.S. requirement; A.B. elective. Two hours a week throughout the year.

(*f*) GOETHE'S FAUST—Reading and translation of Faust; discussions on topics suggested by the play, structure of the drama. Lectures on the rise and development of the German theater. Senior elective. Two hours a week; first semester.

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(*g*) LECTURES ON GERMAN LITERATURE—Complementary course to *e*. Senior elective. Two hours a week; second semester.

(*h*) SCIENTIFIC GERMAN—A course of reading in works covering a broad field of scientific and literary topics. Senior elective. One hour a week throughout the year.

GEOLOGY

PROFESSOR SCHIEDT

Geology is required of all science students as a fitting conclusion of both the chemical and the biological courses. Elective for others.

(*a*) DYNAMICAL AND STRUCTURAL GEOLOGY—Recitations from text combined with the study of the Shaler-Davis models and photographs and the microscopic examination of rock types. Text: Norton's Elements of Geology, Chamberlain and Salisbury's College Geology. Senior elective. Required in B.S. course. Two hours a week; first semester. Field work and one hour laboratory.

(*b*) HISTORICAL GEOLOGY—A continuation of Course *a*. Senior elective. Required in B.S. course. Two hours a week; second semester. Field work and one hour laboratory.

GREEK

PROF. HELLER PROF. SCHAEFFER

The purpose aimed at in the department is to give the student such a mastery of the accidence

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and syntax of the language and such command of its vocabulary as will enable him to read simple Attic Greek with some degree of rapidity and ease, and at the same time to make him acquainted with Greek literature in all of its principal divisions, as illustrated by the works of its greatest writers, as well as familiar with the customs and institutions of the Greek people.

The study of Greek is required of all candidates for the degree of Bachelor of Arts.

Courses are offered for two classes of students: (1) those who enter with full credit for the preparatory work in Greek, and (2) those who begin Greek in the college. The former are required to take Courses *c* and *d;* and, in addition, Course *e* or Course *g* is required of those who do not elect one year of Latin after the Sophomore year. Students who begin Greek after entrance are required to take Courses *a*, *b*, *d*, and *g* or *e*.

(*a*) ELEMENTARY GREEK—First Greek Book. Anabasis, begun. Freshman A.B. requirement for those who enter without Greek. Four hours a week throughout the year.

(*b*) SECOND YEAR GREEK—Anabasis, continued to end of Book IV. Homer, Iliad, begun. This course is designed to fit the student to take up Course *d*. Sophomore A.B. requirement for those who have completed Course *a*. Three hours a week throughout the year.

(*c*) Xenophon, Hellenica. Greek prose composition. Herodotus, Book VIII. Homer, Iliad, begun. Freshman A.B. requirement for those who have credit for the preparatory work in Greek. Four hours a week throughout the year.

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(*d*) Homer, Iliad, continued. Plato, Apology. Euripides, Alcestis. Required of Sophomores who have completed Course *c* and of Juniors who have completed Course *b*. Three hours a week throughout the year.

(*e*) GREEK DRAMA—Æschylus, Prometheus Bound. Sophocles, Œdipus Rex. Aristophanes, Frogs. Lectures on the history of the Greek drama and theater. Elective. Open to Juniors who have had Course *d*, and by special permission to others. Two hours a week throughout the year.

(*f*) LYRIC GREEK—Theocritus, Idylls. Pindar, Olympian and Pythian Odes. Elective. Open to those who have had Course *e*. Two hours a week throughout the year.

(*g*) Selections from the Attic Orators. Required of Seniors who began Greek in their Freshman year. Open to others. Two hours a week throughout the year.

(*h*) NEW TESTAMENT GREEK—This course consists of a study of the characteristics of the language of the New Testament, the careful reading of one of the Gospels and one of the Epistles of St. Paul, and frequent reports prepared by members of the class. Each student is expected to own Nestle's Novum Testamentum Graece et Latine, and to make constant use of books reserved at the Library. Senior Elective. One hour a week throughout the year.

HISTORY

PROFESSOR KLEIN

The Department of History has a two-fold aim: (1) To give the student a comprehensive survey of

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the development of Western Europe, it offers in the Freshman and Sophomore years a general course in European History from the decline of the Roman Empire to the end of the nineteenth century; (2) to familiarize the student with the methods of modern historic scholarship as found in the use of sources and the weighing of precise problems of research and criticism, it offers in the Junior and Senior years more detailed courses on particular periods in European and American History. In all the courses offered, the subject comprises lectures, supplementary reading, the writing of essays and the study of selected historical documents.

(*a*) INTRODUCTORY COURSE IN MEDIÆVAL HISTORY—This course is devoted to the study of the more important movements and epochs in European History since the fall of Rome, such as the Barbarian Invasion, the rise and development of the Mediæval Empire, the growth and importance of the Mediæval Church, Mohammedanism, the Crusades, Feudalism, and other characteristic phenomena of the period. Thatcher, A Short History of Mediæval Europe, and Ogg's Source Book of Mediæval History. Freshman A.B. and Ph.B. requirement. Two hours a week; first semester.

(*b*) GENERAL HISTORY OF EUROPE FROM THE END OF THE THIRTEENTH TO THE BEGINNING OF THE SIXTEENTH CENTURY—The Renaissance; the rise of cities; the rise of the modern nations; preparation for the Reformation. Lodge, The Close of the Middle Ages. Freshman A.B. and Ph.B. requirement. Two hours a week; second semester.

(*c*) GENERAL HISTORY OF EUROPE FROM THE

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OPENING OF THE SIXTEENTH CENTURY TO THE FRENCH REVOLUTION—The Reformation will be considered in its relation to all the larger problems of modern history. The course will also include a study of the Humanists; the Counter-Reformation; the Independence of the Dutch; the Thirty Years' War; the Ascendancy of France; the Rise of Prussia and Austria; the Balance of Power in Europe. Lectures, assigned readings and discussions. Schwill's Political History of Modern Europe. Robinson's Readings in European History, Volume II. Sophomore A.B. requirement. Elective for others. Two hours a week; first semester.

(*d*) REVOLUTIONARY EUROPE—The institutions of the old regime in France; the causes and courses of the French Revolution; the effects of the French Revolution upon other countries of Europe; Napoleon and the Napoleonic Wars; the overthrow of Napoleon; and the Treaties of Paris. Lectures, assigned readings, discussions and the preparation of short monographs. Schwill's Political History of Modern Europe. Mathew's The French Revolution. Sophomore A.B. requirement. Elective for others. Two hours a week; second semester.

(*e*) AMERICAN HISTORY—The foundation of the Union, 1750–1829; expansion of English Colonies; rivalry of French and English; the causes of the Revolution; the organization of the government under the constitution; the development of national self-consciousness; social, economic, and political reorganization. Lectures, collateral reading, preparation of monographs, discussion of theses on the basis of secondary sources. Hart's Formation of

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the Union. Hart's American History Told by Contemporaries. Junior elective. Two hours a week; first semester.

(*f*) AMERICAN HISTORY—Division and Reunion from 1829–1914, with special reference to the Civil War and Reconstruction; also later United States History, including the new problems of the last quarter of the century. Lectures, assigned reading, preparation of essays based on original research. Division and Reunion by the Hon. Woodrow Wilson, Ph.D. Select documents of United States History by W. MacDonald. Junior elective. Two hours a week; second semester.

(*g*) HISTORY OF MODERN PHILOSOPHY—A course devoted to the history of the development of thought from Bruno to Spencer. Lectures, assigned readings and discussions. The course aims not only at a description of philosophical systems, but emphasizes required reading of selections from the works of the great philosophical masters themselves. Weber's History of Philosophy. Rand's Modern Classical Philosophers. Junior elective. One hour a week throughout the year.

(*h*) EUROPEAN HISTORY IN THE NINETEENTH CENTURY—This course aims to present the most important developments in the history of European countries since 1815. The reaction in Europe after the overthrow of Napoleon; the reconstruction of Germany; Greek Independence; Revolutions of 1830 and 1848, etc. Lectures, discussions, assigned reading and preparation of monographs. Hazen's Europe Since 1815. Senior elective. Two hours a week; first semester.

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(*i*) EUROPEAN HISTORY SINCE 1848—Napoleon III and the Crimean War; the Union of Italy; the Founding of the German Empire; the Franco-German War; the British Empire in the Nineteenth Century; the Rise of the Balkan States; Industrial Revolution in Russia; the Eastern Question; the Expansion of Europe in Asia and Africa; features of modern progress and a practical study of comparative contemporary political problems. Lectures, collateral readings, and the preparation of monographs on the basis of research. Hazen's Europe Since 1815. Senior elective. Two hours a week; second semester.

(*j*) PREHISTORIC ARCHÆOLOGY—Lectures with collateral reading. The course embraces the study of the earliest human records and their interpretation; the evidences of man's antiquity, social life of primitive man; theories of language, primitive arts, industries, and religions. Keary's Dawn of History. Senior elective. One hour a week; first semester.

(*k*) HISTORIC ARCHÆOLOGY—This course embraces the history of the origin and development of the fine arts. Lectures are also devoted to the minor archæological sciences. Brown's The Fine Arts. Reinach's Apollo. Senior elective. One hour a week; second semester.

LATIN

PROF. MULL PROF. SCHAEFFER

The course in Latin is arranged to be in harmony with the general purpose of a four-year college

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course, and it is taught and studied with the view to secure the best results attainable within these limits. The disciplinary value of the study is held to be of prime account. Constant stress is laid upon the requirements of close, careful, and painstaking study in the preparation of the lessons assigned. Upon this presumption the class-room instruction proceeds, with steady reference to the needs and benefits of the largest number. The quality of the work done is rated above the quantity of ground covered. The aim is to afford every student the amplest opportunity to acquire a knowledge and free use of the means and methods of translation and interpretation, to form correct habits of study, and thus to furnish him with the equipment that is believed to be essential in any serious effort to gain conscious mastery of the subject in whole or in part. The literary values are not underestimated, but they are not made the subjects of technical instruction or the objects of critical study. They are used rather as stimulants for the quickening of the student's own power of perception and appreciation of literary values in general, and as silent working factors in the process of mental culture. Here the aim is to nourish development from within by the cultivation of the literary feeling based on correct standards, thus placing within reach of the student an acquisition that is susceptible of indefinite enlargement.

(*a*) LIVY; Cicero, de Amicitia and de Senectute. Freshman A.B. and Ph.B. requirement. Three hours a week throughout the year.

(*b*) Exercises in prose composition. Freshman

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A.B. requirement. One hour a week throughout the year.

(*c*) HORACE, Odes, Satires and Epistles; Juvenal's Satires. Sophomore A.B. and Ph.B. requirement. Three hours a week throughout the year.

(*d*) CICERO DE ORATORE (or De Officiis); Pliny's or Cicero's Select Letters. Junior elective. Two hours a week throughout the year.

(*e*) THE HISTORIES OF TACITUS—A critical study of the text, with collateral study of the Roman History writers. Senior elective. Two hours a week; first semester.

(*f*) A STUDY OF THE ROMAN DRAMA AND DRAMATIC LITERATURE, with lectures, and readings in Plautus and Terence; or selections from the Latin Fathers and Latin Hymns. Senior elective. Two hours a week; second semester.

(*g*) LATIN PROSE WRITING—Junior and Senior elective. One hour a week throughout the year. Given in alternate years. [Not given in 1915–1916.]

(*h*) VERGIL AND CICERO—Junior and Senior elective. Vergil's Aeneid, Books VII–XII, first semester; Cicero's Letters, second semester. Work designed especially for prospective teachers. Lectures, assigned readings and papers prepared by members of the class. Two hours a week throughout the year. Given in alternate years. [Not given in 1914–1915.]

MATHEMATICS

PROF. KERSHNER PROF. APPLE

(*a*) ALGEBRA, including progressions, permutations and combinations, binomial theorem, series,

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logarithms, and theory of equations. Text: Well's University Algebra. Freshman A.B. requirement. Three hours a week; first semester.

(*b*) SOLID GEOMETRY—Text: Wentworth's Plane and Solid Geometry. Freshman A.B. requirement; three hours a week; second semester. Freshman Ph.B. and B.S. requirement: three hours a week; first semester.

(*c*) DESCRIPTIVE GEOMETRY AND MECHANICAL DRAWING—Freshman B.S. requirement; A.B. and Ph. B. elective. Two hours a week throughout the year.

(*d*) THEORY OF EQUATIONS, including determinants and complex numbers. Text: Barton. Freshman Ph.B. and B.S. requirement and A.B. elective. Three hours a week; second semester.

(*e*) TRIGONOMETRY, plane and spherical, including plane surveying. Texts: Granville's Plane and Spherical Trigonometry; Wentworth's Plane Surveying. Freshman B.S. and Ph.B. and Sophomore A.B. requirement, three hours a week throughout the year.

(*f*) ANALYTICAL GEOMETRY, including straight line, circle, parabola, ellipse and hyperbola, and loci of the second order. Text: Wentworth. Elective for Sophomore Ph.B. and B.S. and Junior A.B. who have completed Trigonometry. Three hours a week; first semester.

(*g*) CALCULUS; differential, including the elements of differentiation and integration, Taylor's and Maclaurin's formulas, maxima and minima values of functions, tangents, normals, indeterminate expressions and curve tracing. Elective to Juniors

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and others who have had analytical geometry. Three hours a week; first semester.

(*h*) INTEGRAL CALCULUS continued, and differential equations with applications to problems in mechanics. Elective to those who have had elementary calculus. Three hours a week; second semester.

(*i*) ADVANCED ANALYTICAL GEOMETRY, including loci of second order, higher plane curves, and solid geometry. Elective for Sophomore Ph.B. and B.S. and Junior A.B. who have completed Course *f*. Two hours a week; second semester.

(*j*) COURSE IN MECHANICS with applications of the calculus suitable for students who expect to become engineers. Calculus required. Senior elective. Two hours a week throughout the year.

(*k*) COURSE IN DIFFERENTIAL EQUATIONS—This course is suitable for students who wish to continue their course in pure mathematics or for engineering students who want to take advanced standing in engineering colleges. Courses *g* and *h* required. Elective. One hour a week; first semester.

PHILOSOPHY

PROFESSOR STAHR

The course of instruction in this department has two ends in view: To familiarize the students with the methods of philosophic thought and discipline the mind in thinking so as to look for the ultimate ground of knowledge; and to give him such a view of himself and of his relation to society, to nature, and to God that he will be able to correlate all the

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branches of learning in a system of liberal culture.

(*a*) PHILOSOPHY OF HISTORY—A course of lectures with oral and written recitations. Sophomore elective. One hour a week; second semester.

(*b*) PSYCHOLOGY—The study of Psychology takes up the study of the nervous system and its relation to consciousness. Angell's Psychology, with free lectures and recitations. Junior requirement. Three hours a week; first semester.

(*c*) ÆSTHETICS—A course of lectures on Æsthetics, outlining the theory of the beautiful with its modifications, the sublime and the comic. Afterwards the class studies the application of æsthetic principles in the development of art. Junior requirement. Two hours a week; second semester.

(*d*) ETHICS—A course of lectures. The first part is devoted to Metaphysical Ethics, including a discussion of the nature of Freedom and the Formation of Character. The second part, or Practical Ethics, treats of the nature of Virtue, Duty, and the the Good, and the differentiation of the latter in the forms of Right, Social Cointegration, and Religion. The lectures are accompanied by recitations, free discussions and essay writing. Senior requirement. Two hours a week throughout the year.

(*e*) PEDAGOGY—Includes the study of Philosophy of Education and History of Education, as well as the practical application of Pedagogic Principles. This course is important, not only to students who expect to teach, but also to others who desire a thorough grounding in the principles of true education and culture. Senior elective. Two hours a week throughout the year.

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(*f*) LOGIC—An optional course open to Juniors and Seniors. Two hours a week; second semester.

PHYSICS

PROFESSOR KERSHNER

(*a*) PHYSICS with laboratory demonstrations. Mechanics, sound, heat and magnetism. Text: College Physics, by Read and Guthe. Plane Trigonometry required. Sophomore B.S. and Ph.B. requirement. Required also of A.B. Juniors who do not take Chemistry. Three hours a week; first semester.

(*b*) PHYSICS with laboratory demonstrations, continued. Electricity, magnetism and light. Continuation of Course *a*. Three hours a week; second semester.

(*c*) PHYSICAL MEASUREMENTS—Mechanics, Heat and Sound. Ames and Bliss. Two hours a week; first semester. Elective for all who have taken or are taking Courses *a* and *b*.

(*d*) PHYSICAL MEASUREMENTS, continued, in heat, light, electricity and magnetism. Elective for all who take or have completed *c*. Two hours a week; second semester.

(*e*) APPLIED ELECTRICITY—This includes measurement of electromotive forces, resistances, capacities, magnetic properties of iron; and efficiency and characteristics of dynamos. Elective to Juniors or Seniors who have taken Mathematics (*f*) and Physics (*b*). Two hours a week throughout the year.

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(*f*) THEORY OF ELECTRICITY—Required for Course *e*. Junior and Senior elective. One hour a week throughout the year. This course is required in addition to *a* and *b* by those who want to enter university courses where four hours of General Physics is required.

(*g*) APPLIED ELECTRICITY—Advanced course. This course is a continuation of Course *e* and takes up a series of laboratory measurements on alternating currents and photometry. Senior elective. Two hours a week throughout the year.

(*h*) THEORY OF ELECTRICITY—Advanced course. Calculus required. This is a course of reading on alternating currents and is complementary to Course *g*. Senior elective. Two hours a week throughout the year.

POLITICS

PROFESSOR HIESTER

(*a*) AMERICAN CIVIL GOVERNMENT—A general survey of civil government in the United States, which presupposes an elementary knowledge of the Federal Constitution, and includes a study of the origin, development and practical workings of the national government, a description of the state governments and their relation to the national government, an examination of the various forms of local and municipal government, and a brief account of the history, policies and machinery of political parties. The course is designed particularly for the needs of those who do not expect to take any advanced work in Politics. Beard's

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American Government and Politics. Sophomore elective. Two hours a week throughout the year.

(*b*) GENERAL POLITICAL SCIENCE—An analytical and historical examination of the modern state. The main topics considered are the nature and origin of the state, the forms of the state, the attributes of sovereignty, the theories of state functions, the scope and content of individual liberty, the forms of government, the structure of the governments of the most important modern countries, and the place of political parties in the mechanism of government. Garner's Introduction to Political Science. Sophomore elective. Two hours a week throughout the year.

(*c*) AMERICAN CONSTITUTIONAL LAW—This course is designed to give a knowledge of the general principles of the constitutional law of the United States. The growth and development of the Federal Constitution through judicial interpretation is carefully observed, and the more important decisions of the Supreme Court are studied. McClain's Constitutional Law in the United States. Two hours a week throughout the year. Open to Juniors and Seniors who have had Course *b*. Given only in alternate years. Omitted in 1915–1916.

(*d*) INTERNATIONAL LAW—A study of the nature, history, subjects and sources of international law, with particular reference to the history and character of American diplomacy and the part played by the United States in the development of modern international law. Lawrence's Principles of International Law. Two hours a week throughout the year. Open to Juniors and Seniors who have had

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Course *b*. Given in alternate years. Omitted in 1914–1915.

PUBLIC SPEAKING

PROFESSOR DEGRANGE

The course in public speaking is designed to train the student in the composition and the delivery of the various forms of public address.

(*a*) Argumentation and Debate. The work covers both theory and practice. The principles of analysis, the rules of evidence, the elements of logic and the kinds of fallacies are discussed. There is also brief-drawing leading up to written and oral debate.

Elective for Juniors and Seniors. Two hours a week; first semester.

(*b*) Public Speaking. The course aims to develop directness, earnestness and dignity in public address. A careful study is made of the psychological principles which govern effective speaking. Elective for Juniors and Seniors. Two hours a week; second semester.

SOCIOLOGY

PROFESSOR HIESTER

(*a*) GENERAL SOCIOLOGY—An elementary course dealing with the structure and functions of contemporary society, the natural history of human society, the principles of social evolution, the conditions of social progress and a brief survey of the history of sociological thought. Small and Vincent's Introduction to the Study of Society. Three hours a week; first semester. Senior elective.

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(*b*) SOCIAL PATHOLOGY—A course in Applied Sociology which has to do with the defective, dependent and delinquent classes. It considers the relation of the individual to society, the various causes of social abnormability, personal, social and industrial, the influence of heredity and environment, the conclusions which have been established with respect to the cure and prevention of social diseases. Smith's Social Pathology. Three hours a week; second semester. Senior elective.

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DEGREES CONFERRED IN 1914

Degrees in Course

Bachelor of Arts

Mahlon Frank Bolton
Henry Newpher Bowman
Ralph Kline Bowman
Claude Octavius Dierolf
Henry Arthur Fox
Frank Preston Fravel
Percy Hoffer Gabel
Edward Townsend Hager
William Oscar Heckman
Amos Henry Hersh
Jacob Carpenter Hess
Foster Calvin Hillegass
Herbert King Kendig
Paul Irving Kunts
Herbert Alfred Schaffner
Harvey Arthur Smith
Caulder Charles Stewart
Lewis Hoch Wagenhorst
Reuben Edwin Kuts
Anson E. Laufer
Laban Wingert Leiter
Samuel Edwin Lobach
George Albert Moore
William Edward Muth
Willis Carl Nugent
Williard Merritt Porterfield, Jr.
Harry Lyman Raub, Jr.
Irvin Albert Raubenhold
Paul Herbert Reigner
Victor Abraham Ruth
Howard Lester Sassaman
Alfred Nevin Sayres
Bertram Stuart Walker
Benjamin Franklin Walts
John Wade Wimer
Henry Higbee Worthington

Bachelor of Philosophy

Paul Hamilton Blets, Jr.
James Herbert Egan
William Edgar Griffith
Oliver Reiff Hartzell
William Michael Loy
Donald Mitchell Mylin
Robert Wendell Owens
Solomon Gilmore Pontius
Harold Kline Robison
John Calvin Saylor
Michael Garfield Stump
Mark Thatcher
Charles Henry Wehler
Ralph Stanley Weiler

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Bachelor of Science

Edmund Keffer Kline
Claudus Lester Rohrbaugh
John Harold Stein

Master of Arts

Elmer Rhodes Hoke
Charles Edwin Sohl

Master of Philosophy

Howard Heistand Minnich Bowman

HONORARY DEGREES

Doctor of Laws

Edgar Marburg, Philadelphia, Pa.

Doctor of Letters

James Hosmer Penniman, Philadelphia, Pa.

Doctor of Science

Peter Monroe Harbold, Millersville, Pa.

Doctor of Divinity

Warren Floyd Teel, Reading, Pa.
Wilson Frederic More, Womelsdorf, Pa.

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PHI BETA KAPPA

Theta Chapter of Pennsylvania

Chartered 1908

Officers

President

Henry Harbaugh Apple

Vice President

William Reigert Brinton

Secretary

A. T. G. Apple

Members Initiated in June, 1914

From the Senior Class

Herbert King Kendig, York, Pa.
Harvey Arthur Smith, Brodheadsville, Pa.
Alfred Nevin Sayres, Lancaster, Pa.
Paul Irving Kuntz, York, Pa.
Henry Higbee Worthington, Lancaster, Pa.
William Michael Loy, Trexler, Pa.
Edward Townsend Hager, Lancaster, Pa.

Annual Address, June 10, 1914

Rev. Samuel McChord Crothers, Cambridge, Mass.

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ACADEMY

Instructors

Thaddeus G. Helm, A.M., Principal,
Greek

Edwin M. Hartman, A.M., Principal,
German

Martin W. Witmer, A.B.,
English

Jacob B. Landis, A.B.,
English

Joseph A. Rothermel, A.M.,
Mathematics and Science

Homer F. Rebert, A.B.,
Latin

Paul J. Sykes, A.B.,
Latin and Athletics

Paul N. Landis, A.B.,
English and Latin

Mark Thatcher, A.B.,
Mathematics and German

Herbert A. Schaffner, A.B.,
History and Athletics

Harvey A. Smith, A.B.,
Mathematics

Earl B. Worthington,
Algebra

Charles P. Stahr, M.D.,
Medical Examiner and School Physician

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THE ACADEMY

History

Franklin and Marshall Academy was originally a preparatory department connected with Franklin College. After the union of Marshall College with Franklin College, this department was continued in immediate connection with Franklin and Marshall College, and in 1872, was named Franklin and Marshall Academy, when a new building was erected for its use and a separate faculty and management were appointed, so as "to make more ample provision for its efficiency and to enlarge its usefulness." An additional building was recently erected at a cost of $100,000.

Aim

The aim of the Academy is well expressed in the words used nearly forty years ago in the resolution of the trustees changing the preparatory department to Franklin and Marshall Academy. It is to be "in the best and highest sense, a training school for boys who desire to go to college, and also furnish a complete academical course for those who do not purpose taking a full collegiate course of study."

While seeking to develop right habits of study and accurate scholarship, the school endeavors also to develop and mould the sound Christian character, which is more important than scholastic efficiency.

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BUILDINGS

The equipment of the Academy includes two large buildings, known as East Hall and the Main Building.

East Hall is a three-story brick building in excellent repair equipped with electric light, steam heat, hot and cold water shower baths and all modern conveniences.

The Main Building is large, beautiful, well-planned, well finished in hard wood, modern in every detail and substantially built of dark red brick, erected at a cost of about $100,000. It is 215 feet long, extending north and south, has two wings, 40x75 feet, and a chapel, seating about 350 boys, built west of the central building. In the center of the building is a large, square hall, with a large fire place, used as a general living room and game room and affording a useful and delightful center for the school life. About one-half of the students can be accommodated in single rooms and the others in double rooms with single beds.

PHYSICAL TRAINING

The school aims to encourage such physical exercise in the gymnasium and on the athletic field as will conduce to the proper development of the student and to the physical condition most favorable to good school work. The Academy boys have their own football, baseball, basketball, and track teams, which are under the direction of their own competent coach and have their own

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athletic grounds. They have the privilege of using the college athletic field nearby for playing match games.

The Academy gymnasium is in the basement of the new building, equipped with a metal locker for every boy, toilet and bath rooms with hot and cold water shower baths.

LIBRARIES AND READING ROOMS

The reading room of the Academy, with about forty of the best papers and magazines, is open to students daily. Academy students also have access, without charge, to the reading room of the college, which receives over one hundred of the best papers and magazines of this country, together with a number of the leading foreign reviews, the college library, and the libraries of the literary societies, within five minutes' walk of the school, aggregating about 50,000 volumes. In these respects, the school affords exceptional advantages for college preparatory students.

LITERARY SOCIETIES

Every boarding student is required to be a member of either the Franklin Literary Society or the Marshall Literary Society. The meetings are conducted by the students, so as to make them acquainted with the rules which hold in deliberative assemblies, but the exercises are under the direction of certain members of the faculty, who are always in attendance, so as to insure careful work and

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definite results. The work of these societies is made a prominent feature of the school.

RELIGIOUS MEETINGS

All students, unless excused at the written request of parents, attend prayers in the Academy Chapel every morning.

All students except those of other than Protestant denominations are required to attend Sunday morning worship in the College Chapel with the college congregation.

A Young Men's Christian Association is maintained by the student body. About eighty per cent. of the boarding students were enrolled last year in voluntary Bible Classes.

ACADEMY AND COLLEGE

The proximity of the Academy to a classical college secures to the students a literary atmosphere and the benefits of numerous literary exercises, debates, lectures, etc., which only such a college community can afford. The Academy is sufficiently separated from the College to avoid the intimate association and intercourse of college and academy students, which is often found objectionable at institutions where these two classes are constantly thrown together.

GRADUATION

A student of the school who has satisfactorily completed the work of any regular course, or such

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equivalent variation as his college may require, no less than 14½ units, is eligible for graduation with the award of the school's diploma. A student who has not completed a full course may receive a certificate of credit for such work as he has satisfactorily passed.

SPECIAL CLASSES

Special classes are organized for young men who teach during the winter and come to the Academy for the spring term.

SUMMER TERM

For teachers and any others desiring work in their line of college preparation a summer term of six weeks is offered, beginning June 14th.

A separate catalogue of the Academy, giving more detailed information, will be sent on application.

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REGISTER OF COLLEGE STUDENTS

Graduate Students

George Elder Brinton, Ph.B. (1913),	Whitesville, N. Y
Nevin Howard Carl, A.B. (1908),	Norfolk, Va.
Leon DeHoff, A.B. (1905),	New Orleans, La.
Abraham Lincoln Gehman, A.B. (1909),	Belleville, Pa.
Ralph Ellis Hartman, A.B. (1913),	Littlestown, Pa.
Amos Henry Hersh, A.B. (1913),	Lancaster, Pa.
Ara Willis Kauffman, A.B. (1904),	West Willow, Pa.
Henry Harold Kershner, Ph.B. (1908),	Reading, Pa.
William Nies Kline, A.B. (1910),	Reading, Pa.
John Nevin Land, A.B. (1907),	Hamburg, Pa.
Paul Nissley Landis, A.B. (1913),	Lancaster, Pa.
Joseph Iddings Lauffer, A.B. (1912),	Irwin, Pa.
Leonard Lewellyn Leh, A.B. (1911),	Coplay, Pa.
Angus LeRoy Lightner, A.B. (1904),	Lancaster, Pa.
Cyrus Cleveland Meyer, A.B. (1908),	Washington, Pa.
Joseph Matthew Newgard, A.B. (1908),	Zwingle, Ia.
J. Vincent Poley, Ph.M. (1904),	Royersford, Pa.
William Merritt Porterfield, Jr., A.B. (1914),	Lancaster, Pa.
Harry Lyman Raub, Jr., A.B. (1914)	Lancaster, Pa.
Adam Frederick Rentz, A.B. (1912),	Wyomissing, Pa.
William Abraham Schneder, A.B. (1908),	Philadelphia, Pa.
Isaac Shirk Simons, A.B. (1909),	Philadelphia, Pa.
William Allen Sohl, A.B. (1912),	Lancaster, Pa.
Paul Jay Sykes, A.B. (1913),	Lancaster, Pa.
Floyd Dennis Weaver, A.B. (1913),	Allenwood, Pa.
Benjamin Franklin Waltz, A.B. (1914),	Dubois, Pa.

Senior Class

A.B. Course

Kenneth Ellmaker Appel, Columbia Avenue.	Lancaster, Pa.
Herbert Franklin Arnold, 509 West James Street.	Saylorsburg, Pa.

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Wallace Dunn Black, 536 West James Street.	Rocky Ridge, Md.
Elmer Roy Corman, 536 West James Street.	Spring Mills, Pa.
Renzie Watson Deihl, 562 West Lemon Street.	Lancaster, Pa.
Tillman Heisey Ebersole, 536 West James Street.	Elizabethtown, Pa.
John Warren Forry, 536 West James Street.	West Leesport, Pa.
Donald Able Geiser, 429 Nevin Street.	Easton, Pa.
Malcolm Morrison Haring, 428 South Queen Street.	Lancaster, Pa.
Earle Russell Herbert, 560 West James Street.	Nanticoke, Pa.
John Samuel Hollenbach, 359 College Avenue.	Middleburg, Pa.
Earle Leslie Leaver Hunter, Ephrata, Pa.	Ephrata, Pa.
Edgar Stambaugh Imler, 359 College Avenue.	Osterburg, Pa.
Raymond Shirk Johns, 1204 East King Street.	Lancaster, Pa.
Charles Leon Johnston, 509 West James Street.	Smithsburg, Md.
Aldus Emerson Kegerreis, 524 West James Street.	Hershey, Pa.
Clayton Grant Keller, 37 East Orange Street.	Lancaster, Pa.
Arthur King Kunkel, 558 West James Street.	Harrisburg, Pa.
George Kunkel, Jr., 558 West James Street.	Harrisburg, Pa.
William Minster Kunkel, 558 West James Street.	Harrisburg, Pa.
Alfred Merton Masonheimer, 415 West James Street.	Weatherly, Pa.
Israel George Nace, 536 West James Street.	Hanover, Pa.
Harry Hess Nye, 426 West James Street.	Elizabethtown, Pa.
Heister Guie Rhawn, 558 West James Street.	Catawissa, Pa.

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Jacob Lloyd Rickert, 359 College Avenue.	Sellersville, Pa.
Harry Lewis Shaffer, 208 North Mulberry Street.	Lancaster, Pa.
Samuel Michael Shelly, 402 West Lemon Street.	Steinsburg, Pa.
Charles Pents Shriver, College Campus.	Mechanicsburg, Pa.
William Shirk Simons, Marietta, Pa.	Marietta, Pa.
John Nevin Waugaman, 509 West James Street.	Export, Pa.
Bruce Albion Wents, 524 West Frederick Street.	Lancaster, Pa.
Charles Raymond Yockey, 436 Lancaster Avenue.	East Brady, Pa.
George Herbert Zellers, 143 East James Street.	Lancaster, Pa.

PH.B. COURSE

Harry Edward Brenner, 428 West King Street.	Lancaster, Pa.
Amandus Greenwald Gearhart, 437 West James Street.	Stroudsburg, Pa.
Burtis Rufus Glidden, 560 West James Street.	Aberdeen, Wash.
Charles Andrew Harter, 524 West James Street.	Maytown, Pa.
Karl Musser Houser, 558 West James Street.	Pennsylvania Furnace, Pa.
William Abia Kurts, 359 College Avenue.	Honeybrook, Pa.
Henry Myers Long, College Campus.	Detroit, Mich.
Adam Zerphy Moore, 543 West Lemon Street.	Lancaster, Pa.
Henry Osman O'Neil, 415 West James Street.	Norristown, Pa.
John Fred Pyfer, 605 College Avenue.	Lancaster, Pa.
John Adam Rieser, 505 West James Street.	Reading, Pa.
James Hervey Sherts, 437 West James Street.	Strasburg, Pa., R. D. 2.

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Samuel Shirk Simons, Marietta, Pa.	Marietta, Pa.
Earl Brooks Worthington, Franklin and Marshall Academy.	Dry Run, Pa.
Clarence Edgar Zorger, College Campus.	Harrisburg, Pa.

B.S. COURSE

Charles Custer Barchfeld, 560 West James Street.	Somerset, Pa.
Edward Henry Berger, 574 West Lemon Street.	York, Pa.
George Michael Blank, 560 West James Street.	Greensburg, Pa.
Carl Hess Brubaker, Columbia, Pa.	Columbia, Pa.
Robert McCulley Halbach, 804 Manor Street.	Lancaster, Pa.
Raymond Henry Kray, 30 North Shippen Street.	Lancaster, Pa.
Lawrence Tibbins Orner, 426 West James Street.	Beech Creek, Pa., R. D.
Philip Raymond Schreiber, 501 West James Street.	York, Pa.

SPECIAL COURSE

James Kimber Grimm, 526 West Frederick Street.	Lancaster, Pa.
Harry Vista Harbaugh, 509 West James Street.	Buena Vista Spring, Pa.
Arthur Slaymaker Herman, 415 West James Street.	Gordonville, Pa.
Abraham Koplin Hostetter, 415 West James Street.	Hanover, Pa.
Llewellyn Leicester Iobst, 437 West James Street.	Freemansburg, Pa.
William Grover Markel, 611 West Lemon Street.	Sunbury, Pa.
Richard Muhlenberg Stockton, 130 North Queen Street.	Lancaster, Pa.

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JUNIOR CLASS

A.B. COURSE

Oscar Clair Allshouse, 509 West James Street.	Avonmore, Pa., R. D. 1.
John Albert Borger, 501 West James Street.	Palmerton, Pa.
Owen B. Brubaker, Bird-in-Hand, Pa.	Bird-in-Hand, Pa.
Robert Lorenzo Clark, Jr., 814 Columbia Avenue.	Lancaster, Pa.
Foster Cleveland Crouse, 536 West James Street.	Berwick, Pa.
Benjamin Franklin Davis, Jr., 142 East Vine Street.	Lancaster, Pa.
David Alton Dietrich, College Campus.	Hublersburg, Pa.
Alvin Francis Dietz, 509 West James Street.	Wind Gap, Pa., R. D. 1.
Charles Spindler Duttenhofer, 337 West Orange Street.	Lancaster, Pa.
Paul Nathan Fox, 536 West James Street.	New Bloomfield, Pa.
George Treer Hambright, 26 West James Street.	Lancaster, Pa.
William Allen Hammond, 437 West James Street.	New Holland, Pa.
John Michael Herzog, 415 West King Street.	Lancaster, Pa.
Roy Edward Hoke, 347 West Lemon Street.	Lancaster, Pa.
Henry Kissinger Reiss Holston, 558 West James Street.	Pottstown, Pa.
Asis Alexander Koorie, Franklin and Marshall Academy.	Paterson, N. J.
Daniel Herr Kunkel, 446 Nevin Street.	Harrisburg, Pa.
Raymond Austin McClellan, Franklin and Marshall Academy.	Allentown, Pa.
Jarrett Gover Moyer, 509 West James Street.	Ashland, Pa.
Stanley Nissley Mumma, 437 West James Street.	Landisville, Pa.

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Ralph Schnader Myers, Terre Hill, Pa.	Terre Hill, Pa.
John Boyer Noss, 602 West James Street.	Wakamatsu, Iwashiro, Japan.
Harold George Ripple, 567 West Lemon Street.	Lancaster, Pa.
Charles David Rockel, 501 West James Street.	Allentown, Pa.
Charles Theodore Roller, 434 Lancaster Avenue.	Weyers Cave, Va.
Howard Kann Spahr, 438 Nevin Street.	Lancaster, Pa.
Frederick DeHart Wentzel, 536 West James Street.	Stony Creek Mills, Pa.
James William Witherspoon, 560 West James Street.	Mercersburg, Pa.
Clayton Warren Wotring, 359 College Avenue.	Jordan, Pa.

PH.B. COURSE

William Lester Atchley, 402 West Lemon Street.	Stone Church, Pa.
Claude S. Beck, 524 West James Street.	St. Clair, Pa.
Franklin Krauskop Brinkman, 234 South Queen Street.	Lancaster, Pa.
Joseph Hess Geiger, 437 West James Street.	Quarryville, Pa.
Roy Wilson Honsberger, 509 West James Street.	Tremont, Pa.
David Sylvester Kaltreider, College Campus.	York, Pa.
Maurice William Miller, 359 College Avenue.	Summit Hill, Pa.
Edward Everett Mylin, 807 North Duke Street.	Lancaster, Pa.
Frederick Leet Reichert, 410 Manor Street.	Lancaster, Pa.
Meade Daniel Schaffner, 437 West James Street.	Enhaut, Pa.
William Mason Seibert, 415 West James Street.	Clearspring, Md.

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Clarence Edgar Shappell, 359 College Avenue.	Hamburg, Pa.
Lambert L. Spancake, 359 College Avenue.	Pine Grove, Pa.
Frederick Alvin Sterner, 513½ West James Street.	Schuylkill Haven, Pa.
Simon Peter Whitehead, 437 West James Street.	Manor, Pa.

B.S. COURSE

Harold Augustus Barr, 332 West Lemon Street.	Lancaster, Pa.
Earl Brandt Grosh, 134 East Clay Street.	Lancaster, Pa.
Horace Egbert Haring, 428 South Queen Street.	Lancaster, Pa.
Ray Reiff Hertzog, 437 West James Street.	Oley, Pa.
Myron William Jones, 616 West Lemon Street.	Lancaster, Pa.
Thomas Tony Martone, 558 West James Street.	Singerly, Md.
Paul Good Murray, Mountville, Pa.	Mountville, Pa.
Robert Barr Rohrer, 234 North Mary Street.	Lancaster, Pa.
Sidney Lanier Weller, 415 West James Street.	Wrightsville, Pa.

SPECIAL COURSE

Edgar Charles Bleiler, 359 College Avenue.	Frackville, Pa.
Paul Remington Garrison, Columbia, Pa.	Columbia, Pa.
Ferdinand Heine, 432 North Duke Street.	Lancaster, Pa.
Richard Karl Honaman, 310 West Lemon Street.	Lancaster, Pa.
Harry Leslie Jones, College Campus.	Youngwood, Pa.
George Washington March, 415 West James Street.	Norristown, Pa.

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James Archer Smith, 560 West James Street.	Baltimore, Md.
Frank William Teske, 536 West James Street.	Plymouth, Pa.
Harry Franklin John Uberroth, 363 College Avenue.	Bethlehem, Pa.
Alvin C. Wertsch, Stevens Industrial School.	Lancaster, Pa.

SOPHOMORE CLASS

A.B. COURSE

Ernest William Baker, 143 East Clay Street.	Lancaster, Pa.
Stanley Cleveland Baker, 536 West James Street.	Porter's Sideling, Pa.
Samuel Shenk Bard, East Petersburg, Pa.	East Petersburg, Pa.
Ernest Wright Brindle, 509 West James Street.	Waynesboro, Pa.
Jasper Roger Brown, 536 West James Street.	Esterly, Pa.
John Graybill Crawford, 441 West Chestnut Street.	Mifflintown, Pa.
Clement Weiser Dechant, 446 Nevin Street.	Hanover, Pa.
Francis Marion Erdman, 437 West James Street.	Shamokin, Pa.
Absalom Oliver Eshleman, Terre Hill, Pa.	Terre Hill, Pa.
Thomas Billroth Garvey, 443 West Chestnut Street.	Lancaster, Pa.
Leon Bucher Gilbert, 622 West Lemon Street.	Reading, Pa.
Norman Berlin Gregory, 359 College Avenue.	Gilbert, Pa.
Frank Conrad Griel, 302 North Pine Street.	Lancaster, Pa.
Paul Goodman Hayes, 558 North Queen Street.	Lancaster, Pa.
Rene LeVerne Herbst, 536 West James Street.	Shrewsbury, Pa.

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James Carrol Koons, 570 West Lemon Street.	Taneytown, Md.
Clairmont Arthur Kressley, 433 North Charlotte Street.	Hegins, Pa.
William Clayton Leitzel, 359 College Avenue.	Elizabethville, Pa.
John Hershey Lenhard, Mountville, Pa.	Mountville, Pa.
Christ. Longenecker Martin, 426 West James Street.	Elizabethtown, Pa.
George Jacob Moyer, 344 Nevin Street.	Womelsdorf, Pa.
Lewis John Musser, College Campus.	Berlin, Pa.
Frederick Ray Peck, 559 West Lemon Street.	Mt. Pleasant, N. C.
Robert Powers, 231 North Mary Street.	Lancaster, Pa.
Walter Franklin Prien, 560 West James Street.	Rochester, N. Y.
Russell Henry Rhoads, 233 East Clay Street.	Lancaster, Pa.
William Henry Sassaman, 622 West Lemon Street.	Breinigsville, Pa., R. D. 2.
Paul Kern Shirk, 359 College Avenue.	Leola, Pa.
Harold Glenn Shoemaker, College Campus.	Bedford, Pa.
Arthur Adler Sondheimer, 131 College Avenue.	Lancaster, Pa.
Paul Tobias Stonesifer, 426 West James Street.	Fort Loudon, Pa.
Oscar Mininger Stoudt, 405 West Lemon Street.	Quakertown, Pa.
Simon Hezekiah Waugaman, 509 West James Street.	Export, Pa.
Francis Smith Weiss, 509 West James Street.	Stroudsburg, Pa.
Paul Dennis Wierman, 359 College Avenue.	Arendtsville, Pa.

PH.B. COURSE

Louis Henry Coxe, III, 560 West James Street.	Wilmington, Del.

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William Elmer Feidt, 526 West Frederick Street.	Millersburg, Pa.
Frederic Steinman Folts, 249 Charlotte Street.	Lancaster, Pa.
David Herr Frantz, 321 East King Street.	Lancaster, Pa.
Percy Stanley Frits, 415 North Charlotte Street.	Reading, Pa.
Ira Risser Herr, 346 West Orange Street.	Elizabethtown, Pa.
Ethelbert Johnson, 142 College Avenue.	Berkeley, California.
Gerald Wilberforce Levan, 558 West James Street.	Alexandria, Pa.
Joseph Orndorff Levan, 441 North Pine Street.	Alexandria, Pa.
Alton Walter Lick, 536 West James Street.	Marysville, Pa.
Titus Breinig Lobach, 249 College Avenue.	Lancaster, Pa.
Benjamin Weber Luttenberger, 519 South Lime Street.	Lancaster, Pa.
Adam Hershey Martin, 359 College Avenue.	New Holland, Pa., R. D. 3.
Cyrus Hollinger Meminger, 138 East Chestnut Street.	Lancaster, Pa.
Stewart Victor Rohrbaugh, 536 West James Street.	New Freedom, Pa.
Ralph Edwin Starr, 536 West James Street.	Valley View, Pa.
William Edwin Troutman, 513½ West James Street.	Bernville, Pa.
Maurice Cleveland Waltersdorf, 536 West James Street.	Hanover, Pa.
Herbert Raymond Weitzel, Lititz, Pa.	Lititz, Pa.
George Jacob Willauer, 509 West James Street.	Stockerton, Pa.

B.S. COURSE

Walker Nevin Brenner, College Campus.	York, Pa.
Ivan Edgar Fisher, 509 West James Street.	United, Pa.

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Allen Reiff Hartzell, 536 West James Street.	South Perkasie, Pa.
J. Reah Hollinger, 35 S. Prince Street.	Lancaster, Pa.
Paul Bitzer Leinbach, 558 West James Street.	Reading, Pa.
John William Rese, 558 West James Street.	Bellevue, Pa.
Henry Justin Roddy, Millersville, Pa.	Millersville, Pa.
John Donald Rohrer, 116 East New Street.	Lancaster, Pa.
Clarence Sener Stormfeltz, 222 East New Street.	Lancaster, Pa.
Ira Bitzer Winger, 415 West James Street.	Ephrata, Pa.
August Rohe Zapp, 437 West James Street.	Oxford, N. J.

SPECIAL COURSE

Carl Franklin Adams, 128 South Queen Street.	Lancaster, Pa.
Michael Joseph Czapp, 517 Lancaster Avenue.	Northampton, Pa.
Franklin Geary Derr, 142 College Avenue.	Marietta, Pa.
Chester Rowell Graff, 560 West James Street.	Fresno, California.
John Robert Groff, 239 Lancaster Avenue.	Lancaster, Pa.
Samuel Vaughan Hulse, Jr., 560 West James Street.	Newark, N. J.
Earle Weant Koons, 501 West James Street.	Taneytown, Md.
Jacob Cyrus Meisner, 359 College Avenue.	Durlach, Pa.
Conrad Clever Muehe, 443 Nevin Street.	Lancaster, Pa.
Harold Shauer Rambo, 558 West James Street.	Pottstown, Pa.
David Beaver Rupley, 405 West Lemon Street.	York, Pa.
John Frederick Sener, Lititz Pike.	Lancaster, Pa.

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Harold Frantz Shartle, 30 South Prince Street.	Lancaster, Pa.
Paul Eugene Stroup, 243 College Avenue.	Elizabethville, Pa.
William Tinsley, College Campus.	Lancaster, Pa.
Harold Clifton Thorbahn, 155 East Chestnut Street.	Lancaster, Pa.

FRESHMAN CLASS

A.B. COURSE

Frederick Clever Bald, 413 North Charlotte Street.	Mercersburg, Pa.
Albert John Bintrim, 438 Nevin Street.	Harmony, Pa., R. D. 39.
Henry Clay Burkholder, 139 East Lemon Street.	Lancaster, Pa.
Paul Ebersole Burkholder, Elizabethtown, Pa.	Elizabethtown, Pa.
Myer Cohn, 46 South Prince Street.	Lancaster, Pa.
Carl Frederick Diller, 946 Columbia Avenue.	Lancaster, Pa.
Paul Topley Gantt, 438 Nevin Street.	Newport, Pa.
Albert Ralph Glessner, College Campus.	Shanksville, Pa., R. D. 1.
William Earl Glessner, College Campus.	Shanksville, Pa., R. D. 1.
William Henderson Hager, Jr., Columbia Avenue.	Lancaster, Pa.
Norman Walter Haring, 428 South Queen Street.	Lancaster, Pa.
Delas Raymond Keener, 443 Nevin Street.	Myerstown, R. D. 3.
Claude Calvin Kissinger, 435 Charlotte Street.	Shamokin, Pa.
Francis Bennett Leinbach, 536 West James Street.	Riegelsville, Pa.
Theodore Miller Leinbach, 558 West James Street.	Reading, Pa.

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Paul Moyer Limbert, Lancaster, Pa.
413 North Charlotte Street.
Wilbert Earl Moorehead, Imler, Pa.
405 West Lemon Street.
Paul Albert Mueller, Lancaster, Pa.
230 North Mary Street.
Roland Brubaker Paxson, Lancaster, Pa.
422 West James Street.
Henry Stanley Rickert, Sellersville, Pa.
517 Lancaster Avenue.
Edwin Arthur Roberts, Gettysburg, Pa., R. D. 5.
413 North Charlotte Street.
Russell Jacobs Ruff, New Oxford, Pa.
622 West Lemon Street.
Hesser Clapham Ruhl, Mifflinburg, Pa.
415 North Charlotte Street.
Henry Bucher Shriver, Mechanicsburg, Pa.
College Campus.
John Albert Slagen, Lancaster, Pa.
572 West Lemon Street.
John Q. Truxal, Jr., Greensburg, Pa.
603 West Lemon Street.
Charles Edwin Vandersloot, York, Pa.
College Campus.
William Wiley Weaver, Lancaster, Pa.
237 East Orange Street.
Roy Groff Witmer, Lancaster, Pa.
45 Green Street.
Edwin Bodder Yeich, Reading, Pa.
622 West Lemon Street.

PH.B. COURSE

George Johnson Black, Boswell, Pa.
560 West James Street.
Harry Cummins Culshaw, Brodheadsville, Pa.
433 North Charlotte Street.
Raymond Kissling Derr, East Greenville, Pa.
517 Lancaster Avenue.
Landis Doner, Lancaster, Pa., R. D. 4.
Lancaster, Pa., R. D. 4.
Raymond Rufus Fertig, Shamokin, Pa.
435 North Charlotte Street.
Charles Linden Greulich, East Greenville, Pa.
518 Lancaster Avenue.

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George Roberts Hetrich, 558 West James Street.	Birdsboro, Pa.
Edward John Kessler, 437 West James Street.	Allentown, Pa., R. D. 2.
Linn Cessna Lightner, 536 West James Street.	Marysville, Pa.
Jesse Norman Roeder, 517 Lancaster Avenue.	Pennsburg, Pa.
Joseph Raphael Stine, 243 College Avenue.	Elisabethville, Pa.
Kay Stanley Witmer, 502 West James Street.	Malta, Pa.

B.S. COURSE

Charles Clyde Allshouse, 509 West James Street.	Avonmore, Pa., R. D. 1.
Rodney Vincent Angle, 513½ West James Street.	Shippensburg, Pa.
Hoke Bair, 415 West James Street.	Hanover, Pa.
Lawrence Ralph Berger, 574 West Lemon Street.	York, Pa.
Amos Bowman, Marietta, Pa.	Marietta, Pa.
John Albert Butler, 772 Marietta Avenue.	Lancaster, Pa.
Norman Fitzhugh Eberman, 512 West Walnut Street.	Lancaster, Pa.
Robert Raugh Elder, 612 West Lemon Street.	Brownsville, Pa.
Harry Heins Eschbach, 606 West James Street.	Lancaster, Pa.
John Pontz Feagley, 708 Columbia Avenue.	Lancaster, Pa.
Frank McLaughlin Forstburg, 437 West James Street.	Media, Pa., R. D. 2.
Walter Calvin Fringer, 426 West James Street.	Taneytown, Md.
David Ivan Gleim, 419 North Charlotte Street.	Columbia, Pa.
Ray Young Grube, Lititz, Pa., R. D. 4.	Lititz, Pa., R. D. 4.
James Alfred Hibbs, 426 West James Street.	Brownsville, Pa.

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John Hertzler Hollinger, Hollinger P. O., Pa.	Hollinger P. O., Pa.
Charles J. Kestner, Jr., 622 West Lemon Street.	Reading, Pa.
Alvin Raymond Kneedler, 603 West Walnut Street.	Greensburg, Pa.
Richard Alwin Livingston, 540 West James Street.	Lancaster, Pa.
William Lloyd McAllister, West Willow, Pa.	West Willow, Pa.
George Francis Michael, 526 West Frederick Street.	Millersburg, Pa.
Walter James Mounts, 437 West James Street.	Reading, Pa.
Alfred Giles Neill, 560 West James Street.	Elkins, W. Va.
Herman Hugo Nies, 432 Lancaster Avenue.	Lancaster, Pa.
Hans William Nolde, 505 West James Street.	Reading, Pa.
George Henry Ormrod, 415 West James Street.	Emaus, Pa.
Richard Conrad Francis Schiedt, Jr., 1043 Wheatland Avenue.	Lancaster, Pa.
Julius Edward Schneider West James Street	West Hasleton, Pa.
Paul Decker Sheirich, Mountville, Pa.	Mountville, Pa.
David Allen Williams, 437 West James Street.	Stroudsburg, Pa.

SPECIAL COURSE

Francis Stephen Bachler, 642 Chester Avenue.	Lancaster, Pa.
Walter Aloysius Roberts Buckius, 201 West Orange Street.	Lancaster, Pa.
Paul Keller Evans, 809 North Duke Street.	Lancaster, Pa.
Lionel Herbert Geisenberger, 651 West Chestnut Street.	Lancaster, Pa.
Robert N. Gitt, 415 West James Street.	Hanover, Pa.
Rae Elmer Hinterleiter, 322 West Lemon Street.	Lancaster, Pa.

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Ira Franklin Honaman, 310 West Lemon Street.	Lancaster, Pa.
Hugh Hoover, 45 North Prince Street.	Lancaster, Pa.
Eric Randolph Jette, 67 South Franklin Street.	Lancaster, Pa.
Kirk DeVon Johnson, 909 East King Street.	Lancaster, Pa.
David Keith, Jr., 560 West James Street.	Salt Lake City, Utah.
Harold Ellsworth LeRoy, 517 Lancaster Avenue.	Montecullo, N. Y.
Nathaniel Sample Lindsay, 215 Ruby Street.	Lancaster, Pa.
Harold Wade Parthemer, 643 Chester Avenue.	Lancaster, Pa.
Mahlon Ranck, 29 Broad Street.	Lancaster, Pa.
Harry Elmer Shepardson, 509 West James Street.	Wind Gap, Pa.
Marshall Elias Smith, 115 North Prince Street.	Lancaster, Pa.
Rathfon Merrill Urban, 421 West Orange Street.	Lancaster, Pa.
Robert Charles Weishaupt, 55 South Franklin Street.	Lancaster, Pa.
William Hervey Work, 836 Columbia Avenue.	Lancaster, Pa.
James Adam Ernest Zimmermann, 674 West Vine Street.	Lancaster, Pa.

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REGISTER OF ACADEMY STUDENTS

Acevedo, Mario,	Azua, Dominican Republic, W. I.
Adams, Benjamin Franklin,	Lancaster. Pa.
Alesbury, Marsh,	Summit, N. J.
Arisman, George Martin,	Boswell, Pa.
Arnold, Walter,	Lancaster, Pa.
Bachman, Harry Musser,	Strasburg, Pa.
Bair, John McKinley,	New Providence, Pa.
Barr, James Jacob,	Lancaster, Pa.
Barr, Richard Hersh,	Lancaster, Pa.
Bennett, Charles John,	Mt. Joy, Pa.
Bittle, Stanley Edward,	Tremont, Pa.
Bloom, Hiram Leander,	Sunbury, Pa.
Book, George Sherman,	Strasburg, Pa.
Boyle, John Annin,	Lancaster, Pa.
Brandt, David Shetter,	Lancaster, Pa.
Brecht, Robert Paul,	Lancaster, Pa.
Breneman, Adam Roy,	Lancaster, Pa., R. No. 3.
Brinton, William Penn,	Lancaster, Pa.
Browne, Harry Eli,	Lancaster, Pa.
Brown, Jacob Hay,	Lancaster, Pa.
Brown, John William,	Lancaster, Pa.
Brown, Robert Joseph,	Lancaster, Pa.
Brown, William Hensel,	Lancaster, Pa.
Brubaker, Clarence Norse,	Bird-in-Hand, Pa.
Bucher, Robert Lee,	Watsontown, Pa.
Buch, John Edward,	Lititz, Pa.
Buckius, Walter Roberts,	Lancaster, Pa.
Burkholder, Henry Clay,	Lancaster, Pa.
Burkholder, Paul Ebersole,	Elizabethtown, Pa.
Burns, William,	Lancaster, Pa.
Charles, John Raymond,	Lancaster, Pa.
Clendenin, Beverly Sinclair,	Quarryville, Pa.
Cooper, Herbert Kurtz,	Brownstown, Pa.
Cooper, William Franklin,	Lancaster, Pa.
Cox, John Alexander,	Lancaster, Pa.

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Crawford, Howe Macleon,	Mifflintown, Pa.
Cresswell, Henry Chester,	Petersburg, Pa.
Custer, Russell Detweiler,	Cedars, Pa.
Dabney, Robert David,	New York, N. Y.
Davidson, James Ferdinand,	Oshkosh, Wis.
Day, Alfred Eugene,	Lancaster, Pa.
Deacon, William Whitman,	Strasburg, Pa.
Deckert, Daniel Beck,	Schuylkill Haven, Pa.
Dick, George Washington,	Reading, Pa.
Diller, Samuel William,	Lancaster, Pa.
Dissinger, Ira Thornton Clement,	Sunbury, Pa.
Dubrow, Michael Gilbert,	Philadelphia, Pa.
Dughi, Lazarus Arthur,	Lewistown, Pa.
Durst, Frank Sherman,	Grantsville, Md.
Dyer, Ernest Fred,	Lancaster, Pa.
Ebersole, Bernard Wagner,	Mt. Joy, Pa.
Eby, Henry Reist,	Mt. Joy, Pa.
Erb, Zenas Harnish,	Lititz, Pa.
Eschbach, Harry Heins,	Lancaster, Pa.
Estupinan, Joaquin,	Province Esmeraldes, Equador S. A.
Evans, Jay Harry,	Lancaster, Pa.
Evans, Samuel Yundt,	Lancaster, Pa.
Everline, George,	Corrigansville, Md.
Farmer, Clayton Stultz,	Marietta, Pa.
Farver, Willis Theodore,	Lancaster, Pa.
Feagley, Frank Harold,	Lancaster, Pa.
Fehr, Stanley James,	Tatamy, Pa.
Fennell, William James,	Delmont, Pa.
Fenstermacher, Erwin Franklin,	Coplay, Pa.
Ferguson, John Herman,	Clearfield, Pa.
Flickinger, Jay Harold,	New Holland, Pa.
Fox, Reginald Judson,	New York, N. Y.
Forstburg, Frank McLaughlin,	Media, Pa.
Forstburg, Robert Bolenius,	Media, Pa.
Frantz, Abram Peters,	Lancaster, Pa.
Frey, Charles Haverstick,	Lancaster, Pa.
Frey, Norman Remley,	Lancaster, Pa.
Frey, Myron Kohler,	Allentown, Pa.

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Fries, Edward Kermit,	Brooklyn, N. Y.
Froelich, Edward Immel,	Mountville, Pa.
Garvey, James Farrell,	Lancaster, Pa.
Gleasner, Albert Ralph,	Shanksville, Pa.
Gleasner, William Earl,	Shanksville, Pa.
Gleasner, Harry Lee,	Shanksville, Pa.
Godines, Rodolfo Simeon,	Sagua la Grande, Cuba.
Goodling, John Calvin,	Lancaster, Pa.
Graves, Edwin Darius,	Marietta, Pa.
Graves, Reed,	Marietta, Pa.
Graybill, David William,	East Petersburg, Pa.
Grebe, Louis Fred,	Stoney Creek Mills, Pa.
Griesemer, Raymond Clarence,	Allentown, Pa.
Groff, Frank Lester,	Lancaster, Pa.
Groff, Nelson Forney,	East Petersburg, Pa.
Gross, Edward Leopold,	Lancaster, Pa.
Grubb, Howard Scott,	Quarryville, Pa.
Grube, John Franklin,	Lancaster, Pa.
Grube, Ray Young,	Litits, Pa.
Gunderman, Donald Conrad,	Hoboken, Pa.
Guthrie, John McKee,	Pittsburgh, Pa.
Hager, John Christopher,	Lancaster, Pa.
Hager, Nathaniel Ellmaker,	Lancaster, Pa.
Hager, William Henderson,	Lancaster, Pa.
Hambleton, Jerre Brown,	Wakefield, Pa.
Hammond, Ralph Edward,	Reading, Pa.
Harnish, David Paul,	Lancaster, Pa.
Harnish, Louis Christian,	Lancaster, Pa.
Harnish, Raymond Brown,	Lancaster, Pa.
Hartman, Claude Leroy,	Dallastown, Pa.
Hartman, Ezra Flickinger,	Littlestown, Pa.
Haugh, Raymond Talbert,	York, Pa.
Haws, Benjamin Franklin,	Pottstown, Pa.
Heckler, John Franklin,	Elizabethtown, Pa.
Heinitsh, William Edward,	Lancaster, Pa.
Heller, Iden Dalbey,	Lancaster, Pa.
Henry, William Keller,	Lancaster, Pa.
Herr, Benjamin Groff,	Lancaster, Pa., R. No. 1.
Herr, Robert Frants,	Lancaster, Pa.

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Hershey, John Hostetter,	Lancaster, Pa.
Hiester, Ernest Morgan,	Lancaster, Pa.
Hildebrand, John Stanley,	Strasburg, Pa.
Hillegass, Russell Kern,	Leacock, Pa.
Hock, Robert Conrad,	Pottsville, Pa.
Hoff, Clair Albert,	Altoona, Pa.
Holbrook, Gilbert Shock,	Lancaster, Pa.
Howard, Francis Dorsey,	Frederick, Md.
Hoyt, Gladding Powell,	Columbia, Pa.
Huber, Charles Benedict,	Lancaster, Pa.
Ilyus, Edmund Burwell,	Lancaster, Pa.
Irwin, George Hugh,	Pennsylvania Furnace, Pa.
Jabour, Michel,	Atlantic City, N. J.
Jaffer, Charles Maurice,	New York, N. Y.
Johnston, Frank Henry,	Coplay, Pa.
Jones, Alfred Mortimer,	Lancaster, Pa.
Keinert, Maurice,	Lancaster, Pa.
Kessler, Edward John,	Allentown, Pa.
Kinzer, Arthur Weidler,	New Holland, Pa.
Kinzer, William Slaymaker,	Lancaster, Pa.
Klein, Frederic Shriver,	Lancaster, Pa.
Klein, Richard Henry,	Lancaster, Pa.
Klemmer, Roland Nicolaus,	New Holland, Pa.
Kramer, Max Preston,	Gap, Pa.
Landis, David Allen,	East Petersburg, Pa.
Landis, Harry Hartman,	East Petersburg, Pa.
Lawyer, Henry Benjamin,	Lancaster, Pa.
Leaman, John Edgar,	West Willow, Pa.
Leh, Russell Weir,	Egypt, Pa.
Line, Loy Elmer,	Altoona, Pa.
Livingston, Richard Alvin,	Lancaster, Pa.
Long, Philip Metzger,	Lancaster, Pa.
Lord, John Jacob,	Tower City, Pa.
Lurio, Albert Samuel,	Lancaster, Pa.
Lurio, Sigmund Charles,	Lancaster, Pa.
Lutz, Lewin Richmond,	Glen Rock, Pa.
Lutz, William Fletcher,	Glen Rock, Pa.
Lynch, Raymond,	Lancaster, Pa.
MacHatton, Joseph George Park,	La Park, Pa.

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McCormick, Clarence Edgar,	Sparrows Point, Md.
McGovern, John Thomas,	Lancaster, Pa.
McGovern, Walter Hager,	Lancaster, Pa.
McGrann, Bernard Penn-Gaskell,	Lancaster, Pa.
McHose, Allen Irvine,	Lancaster, Pa.
McKean, Harper Khlare,	Endeavor, Pa.
McKeehan, Hobart Dietrich,	Newport, Pa.
McMullin, Samuel James,	Millheim, Pa.
McMullin, William Jerome,	Millheim, Pa.
McNaul, Willard,	Curwensville, Pa.
Mackley, Bucher Carl,	Manheim, Pa.
Madison, Richard Calvin,	Lancaster, Pa.
Maltzberger, John Samuel,	Reading, Pa.
Manette, Harry Leo,	Brockport, Pa.
Marburger, William Clifford,	Denver, Pa.
Marrow, Robert Brayton,	Lancaster, Pa.
Marshall, Cloyd,	Dumont, N. J.
Masser, Mark Milliard,	Hegins, Pa.
Maurer, Earl Ressler,	Hegins, Pa.
Mearig, John Frederick,	New Holland, Pa.
Mellinger, Edward Roscoe,	Lancaster, Pa.
Merrill, William Jennings Bryan,	Garrett, Pa.
Messinger, James Franklin,	Tatamy, Pa.
Miller, Grover Adlai,	Mt. Aetna, Pa.
Miller, John Vinton,	Rochester, Pa.
Miller, Karl Matz,	Lancaster, Pa.
Mitterling, William Henry,	Center Hall, Pa.
Mock, Orlen Snider,	McConnellsburg, Pa.
Moll, Clarence Leond,	Macungie, Pa.
Moore, James Penrose,	East Downingtown, Pa.
Moorehead, Joseph Watson,	Philadelphia, Pa.
Moorehead, Wilbert Earl,	Imler, Pa.
Mountz, Walter James,	Reading, Pa.
Mowery, Jacob Louis,	Lancaster, Pa.
Moyer, Elmer Harold,	Perkasie, Pa.
Myers, Cleon Nelson,	Lancaster, Pa.
Myers, Frank Breneman,	Lancaster, Pa.
Myers, Henry Francis,	Lancaster, Pa.
Myer, Rufus Noah,	Brownstown, Pa.

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Neff, Samuel Wilson,	Perkasie, Pa.
Newcomer, Harold Hearshey,	Mountville, Pa.
Noecker, Samuel Morris,	Camden, N. J.
Noecker, Walter Kahn,	Camden, N. J.
Noss, George Sherer,	Wakamatsu, Japan.
O'Brien, Paul Anthony,	Marietta, Pa.
Ormrod, George Henry,	Emaus, Pa.
Pascoe, Robert Malcome,	New York, N. Y.
Partridge, Thomas Valentine,	Houtzdale, Pa.
Peris, Roy Nicholas,	Landisville, Pa.
Peter, Harvey Arthur,	Toledo, Ohio.
Phillippi, John Ellsworth,	Lititz, Pa.
Prettyman, John Cosgriff,	Wilmington, Del.
Proctor, William Emerson,	Ralston, Pa.
Ranck, Mahlon,	Lancaster, Pa.
Reed, Lawrence Frank,	Orwigsburg, Pa.
Reed, Ralph Raymond,	Orwigsburg, Pa.
Reese, Earl Leroy,	Lancaster, Pa.
Reichardt, Charles Francis,	Ephrata, Pa.
Reist, John Hostetter,	Mt. Joy, Pa.
Reiter, John Harkey,	Pottsville, Pa.
Rhode, Luther Winfield,	Lancaster, Pa.
Rishell, Paul Ralph,	Millheim, Pa.
Rohr, John Ambrose,	Lancaster, Pa.
Rohrer, Henry Augustus,	Lancaster, Pa.
Rohrer, John,	Lancaster, Pa.
Roth, George Ryan,	Lancaster, Pa.
Rudy, Robert Bartel,	Lancaster, Pa.
Schaeffer, John Adam,	Fleetwood, Pa.
Schaffner, Daniel Milton,	Orangeville, Pa.
Schaffner, Paul Alfred,	Orangeville, Pa.
Schantz, Howard Roeder,	East Greenville, Pa.
Schantz, James Roeder,	East Greenville, Pa.
Schiedt, Richard Conrad,	Lancaster, Pa.
Schlichter, Ralph Day,	Sellersville, Pa.
Scull, Raymond William,	Lancaster, Pa.
Seibert, Allan Benton,	Clear Spring, Md.
Seibert, John Unger,	Reading, Pa.
Seitz, Jacob Walter,	Rohrerstown, Pa.

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Sellers, James Monroe,	Sellersville, Pa.
Senger, Harry Earle,	Kinzer, Pa.
Shaub, Robert Henry,	Lancaster, Pa.
Shertz, Amos Lefever,	Lancaster, Pa.
Sheaffer, Paul,	Lancaster, Pa.
Shirk, Samuel Carpenter,	Lancaster, Pa.
Showalter, John Clemens,	New Holland, Pa.
Salen, James Kirkpatrick,	Tremont, Pa.
Shreiner, John Newton,	Lititz, Pa.
Shue, Ephraim Widmyer,	Lancaster, Pa.
Simon, Meyer,	Valley View, Pa.
Singer, Charles Kellemberger,	Paradise, Pa.
Skelton, Creighton Ingersoll,	Lancaster, Pa.
Skiles, John Dunlap,	Lancaster, Pa.
Slagen, John Albert,	Lancaster, Pa.
Slifer, Ward Detrich,	North Wales, Pa.
Smith, Glenn Orren,	Derry, Pa.
Smith, Marshall Elias,	Lancaster, Pa.
Smith, Walter Allen,	Derry, Pa.
Snyder, Franklin Faust,	Lancaster, Pa.
Snyder, John Henry,	Lancaster, Pa.
Spangler, Glenn Rudolph,	McConnellsburg, Pa.
Steele, Sherman Erisman,	Lancaster, Pa.
Stiely, William Russell,	Sacramento, Pa.
Stine, Joseph Raphael,	Elizabethville, Pa.
Storb, Henry Mentzer,	New Holland, Pa.
Summy, Ralph Victor,	Manheim, Pa.
Thomas, Benjamin Franklin,	Shamokin, Pa.
Thomas, Howard Weisner,	Leesport, Pa.
Trespalacios, Ralph,	New York, N. Y.
Troll, Conrad William,	St. Clairsville, Ohio.
Trout, George Swartley,	Lancaster, Pa.
Wackerman, Charles Shultz,	York, Pa.
Walker, Joseph Beidler,	Gwynedd Valley, Pa.
Ward, Warren Simon,	Pennsylvania Furnace, Pa.
Warner, George Charles,	Weatherly, Pa.
Weaver, Houston Emerson,	Lancaster, Pa.
Weaver, William Randler,	Landisville, Pa.
Wenger, Christian McCloud,	Brownstown, Pa.

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Wike, Milton McCoy,	Columbia, Pa.
Williams, David Allen,	Stroudsburg, Pa.
Witmer, Enos Eby,	Lancaster, Pa.
Wolf, Charles Eckert,	Brickerville, Pa.
Wolf, Jacob Earl,	Brownstown, Pa.
Work, William Hervey,	Lancaster, Pa.
Yoder, Ira Freeman,	Allentown, Pa.
Yoder, Robert Emery Patterson,	Allentown, Pa.

Total 277.

SUMMARY

Graduate Students	25
Seniors	63
Juniors	63
Sophomores	82
Freshmen	93
College	326
Academy	277
Total	603
Deduct names given twice	21
Total	582

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